

## **Historic, archived document**

Do not assume content reflects current scientific knowledge, policies, or practices.



Ex 6 B  
Cop. 5  
1412

Indexed.

Issued February 29, 1912.

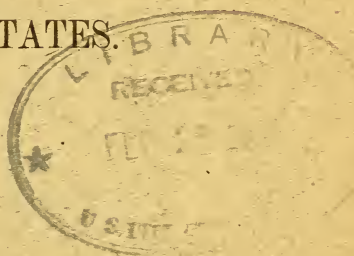
U. S. DEPARTMENT OF AGRICULTURE.

OFFICE OF EXPERIMENT STATIONS—BULLETIN 247.

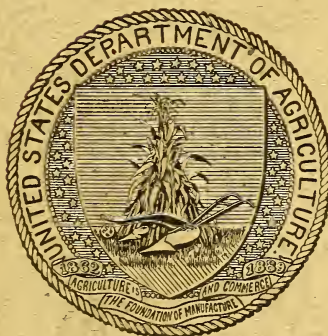
A. C. TRUE, Director.

U. S. Land Agriculture

ORGANIZATION LISTS OF THE  
AGRICULTURAL COLLEGES AND  
EXPERIMENT STATIONS  
IN THE UNITED STATES.



DECEMBER, 1911.



WASHINGTON:  
GOVERNMENT PRINTING OFFICE.

1912.

## U. S. DEPARTMENT OF AGRICULTURE.

### *Scientific Bureaus.*

WEATHER BUREAU—Willis L. Moore, *Chief*.  
BUREAU OF ANIMAL INDUSTRY—A. D. Melvin, *Chief*.  
BUREAU OF PLANT INDUSTRY—B. T. Galloway, *Chief*.  
FOREST SERVICE—H. S. Graves, *Forester*.  
BUREAU OF SOILS—Milton Whitney, *Chief*.  
BUREAU OF CHEMISTRY—H. W. Wiley, *Chemist*.  
BUREAU OF STATISTICS—V. H. Olmsted, *Statistician*.  
BUREAU OF ENTOMOLOGY—L. O. Howard, *Entomologist*.  
BUREAU OF BIOLOGICAL SURVEY—H. W. Henshaw, *Chief*.  
OFFICE OF PUBLIC ROADS—L. W. Page, *Director*.

OFFICE OF EXPERIMENT STATIONS—A. C. True, *Director*.

### THE AGRICULTURAL EXPERIMENT STATIONS.

#### ALABAMA—

College Station: *Auburn*; J. F. Dugger.<sup>1</sup>

Canebrake Station: *Uniontown*; L. H. Moore.<sup>1</sup>

Tuskegee Station: *Tuskegee*; G. W. Carver.<sup>1</sup>

ALASKA—*Sitka*: C. C. Georgeson.<sup>2</sup>

ARIZONA—*Tucson*: R. H. Forbes.<sup>1</sup>

ARKANSAS—*Fayetteville*: C. F. Adams.<sup>1</sup>

CALIFORNIA—*Berkeley*: E. J. Wickson.<sup>1</sup>

COLORADO—*Fort Collins*: C. P. Gillette.<sup>1</sup>

#### CONNECTICUT—

State Station: *New Haven*; E. H. Jenkins.<sup>1</sup>

Storrs Station: *Storrs*; L. A. Clinton.<sup>1</sup>

DELAWARE—*Newark*: H. Hayward.<sup>1</sup>

FLORIDA—*Gainesville*: P. H. Rolfs.<sup>1</sup>

GEORGIA—*Experiment*: Martin V. Calvin.<sup>1</sup>

GUAM—*Island of Guam*: J. B. Thompson.<sup>2</sup>

#### HAWAII—

Federal Station: *Honolulu*; E. V. Wilcox.<sup>2</sup>

Sugar Planters' Station: *Honolulu*; C. F. Eckart.<sup>1</sup>

IDAHO—*Moscow*: W. L. Carlyle.<sup>1</sup>

ILLINOIS—*Urbana*: E. Davenport.<sup>1</sup>

INDIANA—*Lafayette*: A. Goss.<sup>1</sup>

IOWA—*Ames*: C. F. Curtiss.<sup>1</sup>

KANSAS—*Manhattan*: E. H. Webster.<sup>1</sup>

KENTUCKY—*Lexington*: M. A. Scovell.<sup>1</sup>

#### LOUISIANA—

State Station: *Baton Rouge*;

Sugar Station: *Audubon Park*;

*New Orleans*;

North La. Station: *Calhoun*;

Rice Station: *Crowley*;

} W. R. Dodson.<sup>1</sup>

MAINE—*Orono*: C. D. Woods.<sup>1</sup>

MARYLAND—*College Park*: H. J. Patterson.<sup>1</sup>

MASSACHUSETTS—*Amherst*: W. P. Brooks.<sup>1</sup>

MICHIGAN—*East Lansing*: R. S. Shaw.<sup>1</sup>

MINNESOTA—*University Farm, St. Paul*: A. F. Woods.<sup>1</sup>

MISSISSIPPI—*Agricultural College*: E. R. Lloyd.<sup>1</sup>

#### MISSOURI—

College Station: *Columbia*; F. B. Mumford.<sup>1</sup>

Fruit Station: *Mountain Grove*; Paul Evans.<sup>1</sup>

<sup>1</sup> Director.

MONTANA—*Bozeman*: F. B. Linfield.<sup>1</sup>

NEBRASKA—*Lincoln*: E. A. Burnett.<sup>1</sup>

NEVADA—*Reno*: J. E. Stubbs.<sup>1</sup>

NEW HAMPSHIRE—*Durham*: J. C. Kendall.<sup>1</sup>

NEW JERSEY—*New Brunswick*: J. G. Lipman.<sup>1</sup>

NEW MEXICO—*Agricultural College*: Luther Foster.<sup>1</sup>

#### NEW YORK—

State Station: *Geneva*; W. H. Jordan.<sup>1</sup>

Cornell Station: *Ithaca*; L. H. Bailey.<sup>1</sup>

#### NORTH CAROLINA—

College Station: *West Raleigh*; C. B. Williams.<sup>1</sup>

State Station: *Raleigh*; B. W. Kilgore.<sup>1</sup>

NORTH DAKOTA—*Agricultural College*: J. H. Worst.<sup>1</sup>

OHIO—*Wooster*: C. E. Thorne.<sup>1</sup>

OKLAHOMA—*Stillwater*: J. A. Wilson.<sup>1</sup>

OREGON—*Corvallis*: J. Withycombe.<sup>1</sup>

#### PENNSYLVANIA—

State College: *T. F. Hunt*.<sup>1</sup>

State College: Institute of Animal Nutrition,  
H. P. Armsby.<sup>1</sup>

#### PORTO RICO—

Federal Station: *Mayaguez*; D. W. May.<sup>2</sup>

Sugar Producers' Station: *Rio Piedras*; J. T. Crawley.<sup>1</sup>

RHODE ISLAND—*Kingston*: H. J. Wheeler.<sup>1</sup>

SOUTH CAROLINA—*Clemson College*: J. N. Harper.<sup>1</sup>

SOUTH DAKOTA—*Brookings*: J. W. Wilson.<sup>1</sup>

TENNESSEE—*Knorrville*: H. A. Morgan.<sup>1</sup>

TEXAS—*College Station*: B. Youngblood.<sup>1</sup>

UTAH—*Logan*; E. D. Ball.<sup>1</sup>

VERMONT—*Burlington*: J. L. Hills.<sup>1</sup>

#### VIRGINIA—

*Blacksburg*: S. W. Fletcher.<sup>1</sup>

*Norfolk*: Truck Station, T. C. Johnson.<sup>1</sup>

WASHINGTON—*Pullman*: R. W. Thatcher.<sup>1</sup>

WEST VIRGINIA—*Morgantown*: E. D. Sanderson.<sup>1</sup>

WISCONSIN—*Madison*: H. L. Russell.<sup>1</sup>

WYOMING—*Laramie*: H. G. Knight.<sup>1</sup>

<sup>2</sup> Special agent in charge.



## U. S. DEPARTMENT OF AGRICULTURE.

OFFICE OF EXPERIMENT STATIONS—BULLETIN 247.

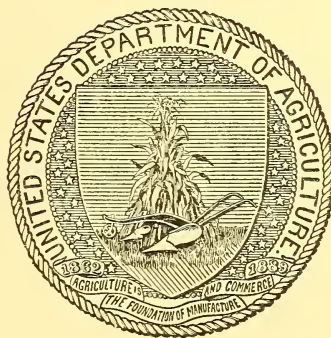
A. C. TRUE, Director.

---

ORGANIZATION LISTS OF THE  
AGRICULTURAL COLLEGES AND  
EXPERIMENT STATIONS  
IN THE UNITED STATES.

---

DECEMBER, 1911.



WASHINGTON:  
GOVERNMENT PRINTING OFFICE.  
1912.



## LETTER OF TRANSMITTAL.

---

U. S. DEPARTMENT OF AGRICULTURE,  
OFFICE OF EXPERIMENT STATIONS,  
*Washington, D. C., October 25, 1911.*

SIR: I have the honor to transmit herewith a manuscript containing the revised organization lists of agricultural colleges and experiment stations in the United States, which has been compiled, under my direction, by Miss Mary A. Agnew, of this office.

In compiling these lists it has been our policy to include only the names of administrative officers and instructors whose work brings them in contact with students in agricultural and home economics courses, omitting those who deal exclusively with mechanic arts or engineering students; but, as formerly, it has in some cases been found impracticable, owing to the complex organization of the institutions concerned, to make the lists entirely consistent.

I recommend the publication of this manuscript as Bulletin 247 of this office.

Respectfully,

A. C. TRUE,  
*Director.*

HON. JAMES WILSON,  
*Secretary of Agriculture.*

---

## CONTENTS.

---

	Page.
Key to abbreviations.....	5
The Office of Experiment Stations.....	6
Officers of the Association of American Agricultural Colleges and Experiment Stations.....	8
Officers of the American Association of Farmers' Institute Workers.....	8
Agricultural colleges and experiment stations in the United States, with govern- ing boards, courses of study, boards of instruction, and station staffs.....	9
Index of names.....	79





## KEY TO ABBREVIATIONS.

---

<i>Acad.</i> , Academy, Academic.	<i>Instr.</i> , Instruction, Instructor.
<i>Acct.</i> , Accountant, Accounts.	<i>Invest.</i> , Investigations.
<i>Actg.</i> , Acting.	<i>Irrig.</i> , Irrigation, Irrigationist.
( <i>Actg.</i> ), Acting Professor.	<i>Lab.</i> , Laboratory.
( <i>Adjunct</i> ), Adjunct Professor.	<i>Lang.</i> , Language, Languages.
<i>Agr.</i> , Agriculture, Agriculturist, Agricultural.	<i>Lat.</i> , Latin.
<i>Agron.</i> , Agronomy, Agronomist.	<i>Lect.</i> , Lecturer.
<i>Agt.</i> , Agent.	<i>Libr.</i> , Library, Librarian.
<i>Anal.</i> , Analytical, Analysis.	<i>Lit.</i> , Literature.
<i>Anat.</i> , Anatomy.	<i>Mach.</i> , Machine, Machinery, Machinist.
<i>Arch.</i> , Architecture.	<i>Math.</i> , Mathematics.
<i>Arith.</i> , Arithmetic.	<i>Mech.</i> , Mechanics, Mechanician, Mechanical.
<i>Assoc.</i> , Associate.	<i>Met.</i> , Meteorology, Meteorologist.
( <i>Assoc.</i> ), Associate Professor.	<i>Metal.</i> , Metallurgy.
<i>Asst.</i> , Assistant.	<i>Mfg.</i> , Manufacturing.
( <i>Asst.</i> ), Assistant Professor.	<i>Mgr.</i> , Manager.
<i>Astron.</i> , Astronomy.	<i>Mgt.</i> , Management.
<i>Bact.</i> , Bacteriology, Bacteriologist.	<i>Mil.</i> , Military.
<i>Bibliog.</i> , Bibliography, Bibliographer.	<i>Min.</i> , Mineralogy, Mineralogist, Mining.
<i>Biol.</i> , Biology, Biologist, Biological.	<i>Mod.</i> , Modern.
<i>Blacksm.</i> , Blacksmithing.	<i>Myc.</i> , Mycology, Mycologist.
<i>Bot.</i> , Botany, Botanist, Botanical.	<i>Nat.</i> , Natural.
<i>Chair.</i> , Chairman.	<i>Nutr.</i> , Nutrition.
<i>Chem.</i> , Chemist, Chemistry, Chemical.	<i>Oler.</i> , Olericulture, Olericulturist.
<i>Climat.</i> , Climatology, Climatologist.	<i>Org.</i> , Organic.
<i>Comdt.</i> , Commandant.	<i>Ornith.</i> , Ornithology.
<i>Coml.</i> , Commercial.	<i>Path.</i> , Pathology, Pathologist.
<i>Comp.</i> , Comparative.	<i>Pedag.</i> , Pedagogy, Pedagogics.
<i>Comr.</i> , Commissioner.	<i>Pharm.</i> , Pharmacy, Pharmacist, Pharmaceutical.
<i>Coop.</i> , Cooperate, Cooperative, Cooperation.	<i>Philos.</i> , Philosophy.
<i>Corresp.</i> , Correspondence, Correspondent.	<i>Photog.</i> , Photography.
<i>Dept.</i> , Department.	<i>Phys.</i> , Physics, Physicist, Physical.
<i>Dir.</i> , Director.	<i>Physiol.</i> , Physiology, Physiologist, Physiological.
<i>Div.</i> , Division.	<i>Polit.</i> , Political.
<i>Dom.</i> , Domestic.	<i>Pomol.</i> , Pomology, Pomologist.
<i>Draw.</i> , Drawing.	<i>Pract.</i> , Practice, Practical, Practicums.
<i>Econ.</i> , Economy, Economic, Economics.	<i>Prep.</i> , Preparatory.
<i>Ed.</i> , Education.	<i>Pres.</i> , President.
<i>Ele.</i> , Elementary.	<i>Prim.</i> , Principal.
<i>Elect.</i> , Electrical, Electricity.	<i>Print.</i> , Printing.
<i>Engin.</i> , Engineer, Engineering.	<i>Prod.</i> , Production.
<i>Engl.</i> , English.	<i>Psych.</i> , Psychology.
<i>Ent.</i> , Entomology, Entomologist.	<i>Rhet.</i> , Rhetoric.
<i>Expt.</i> , Experiment, Experimental, Experiment- alist, Experimenter.	<i>Sci.</i> , Science, Scientific.
<i>Ext.</i> , Extension.	<i>Sec.</i> , Secretary.
<i>Feed.</i> , Feeding.	<i>Sew.</i> , Sewing.
<i>Fert.</i> , Fertilizer.	<i>Sociol.</i> , Sociology.
<i>Flor.</i> , Floriculture, Florist.	<i>Sta.</i> , Station.
<i>For.</i> , Forestry.	<i>Sten.</i> , Stenography, Stenographer.
<i>Gard.</i> , Gardener, Gardening.	<i>Substa.</i> , Substation.
<i>Gen.</i> , General.	<i>Supt.</i> , Superintendent.
<i>Geog.</i> , Geography.	<i>Tech.</i> , Technology, Technical.
<i>Geol.</i> , Geology, Geologist, Geological.	<i>Treas.</i> , Treasurer.
<i>Gov.</i> , Governor.	<i>Typew.</i> , Typewriting, Typewriter.
<i>Hist.</i> , History, Historical.	<i>Univ.</i> , University.
<i>Hort.</i> , Horticulture, Horticulturist.	<i>V. Dir.</i> , Vice Director.
<i>Husb.</i> , Husbandry, Husbandman.	<i>Veg.</i> , Vegetable, Vegetation.
<i>Hyg.</i> , Hygiene.	<i>Vet.</i> , Veterinary, Veterinarian.
<i>Indus.</i> , Industrial, Industries, Industry.	<i>Vit.</i> , Viticulture, Viticulturist.
<i>Inorg.</i> , Inorganic.	<i>V. Pres.</i> , Vice President.
<i>Insp.</i> , Inspector, Inspection.	<i>Wheelwr.</i> , Wheelwrighting.
<i>Insts.</i> , Institutes.	<i>Zool.</i> , Zoology, Zoologist.

## THE OFFICE OF EXPERIMENT STATIONS.

A. C. TRUE, Ph. D., Sc. D., Director.  
E. W. ALLEN, Ph. D., Assistant Director.  
Mrs. C. E. JOHNSTON, Chief Clerk.  
SARAH L. SOMMERS, Record Clerk.  
E. LUCY OGDEN, Librarian.  
MARTHA L. GERICKE, Assistant Librarian.

### RELATIONS WITH STATE AGRICULTURAL EXPERIMENT STATIONS.

The DIRECTOR and ASSISTANT DIRECTOR.

W. H. BEAL.  
W. H. EVANS.  
J. I. SCHULTE.

### EXPERIMENT STATION RECORD.

E. W. ALLEN, Ph. D., Editor.  
H. L. KNIGHT, B. S., Assistant Editor.  
W. H. BEAL, A. B., M. E., } Meteorology, soils, and fertilizers.  
B. W. TILLMAN, B. S., Agr., }  
W. H. EVANS, Ph. D., } Agricultural botany, bacteriology, and vegetable pathology.  
W. E. BOYD, Ph. B., }  
C. F. LANGWORTHY, Ph. D., Foods and human nutrition.  
J. I. SCHULTE, B. Agr., } Field crops.  
J. O. RANKIN, A. B., B. S. A., }  
D. J. CROSBY, M. S., } Agricultural education.  
C. H. LANE, M. A., B. S. A., }  
E. J. GLASSON, B. S. A., Horticulture and forestry.  
W. A. HOOKER, B. S., Economic zoology, entomology, and veterinary medicine.  
E. W. MORSE, B. A. S., Zootechny, dairying, and dairy farming.  
L. W. FETZER, Ph. D., M. D., Agricultural chemistry, agrotechny, and veterinary medicine.  
B. B. HARE, M. A., Rural economics.  
M. D. MOORE, Indexing.  
WILLIAM HENRY, Proof reading.

### EXPERIMENT STATION WORK.

W. H. BEAL, Editor, with the assistance of the staff of Experiment Station Record.

### INSULAR STATIONS.

W. H. EVANS, Ph. D., Chief.

#### ALASKA EXPERIMENT STATIONS.

C. C. GEORGESON, M. S., Special agent in charge, Sitka.  
A. J. WILKUS, Assistant at Sitka.  
G. W. GASSER, B. S., Assistant at Rampart.  
M. D. SNODGRASS, B. S., Assistant at Kodiak.  
LAURENCE KELLY, Assistant dairyman at Kodiak.  
C. W. HEIDEMAN, jr., Herdsman at Kodiak.  
J. W. NEAL, Assistant at Fairbanks.

#### GUAM EXPERIMENT STATION.

J. B. THOMPSON, B. S., Special agent in charge, Island of Guam.  
PETER NELSON, Assistant.

#### HAWAII EXPERIMENT STATION.

E. V. WILCOX, Ph. D., Special agent in charge, Honolulu.  
J. E. HIGGINS, B. A., M. S. A., Horticulturist.  
W. P. KELLEY, M. S., Chemist.  
D. T. FULLAWAY, A. M., Entomologist.  
C. K. MCCLELLAND, M. S. A., Agronomist.  
WILLIAM MCGEORGE, B. S., Assistant chemist.  
ALICE R. THOMPSON, B. S., Assistant chemist.  
C. J. HUNN, B. S. A., Assistant horticulturist.  
VALENTINE S. HOLT, Assistant in horticulture.  
C. A. SAHR, Assistant in agronomy.

## PORTO RICO EXPERIMENT STATION.

D. W. MAY, M. Agr., Special agent in charge, Mayaguez.  
 P. L. GILE, A. B., Chemist.  
 G. L. FAWCETT, B. S., Plant pathologist.  
 C. F. KINMAN, B. S., Horticulturist.  
 C. W. HOOKER, Ph. D., Entomologist.  
 E. G. RITZMAN, B. S. A., Animal husbandman.  
 C. N. AGETON, B. S., Assistant chemist.  
 T. B. MCCLELLAND, A. B., Assistant horticulturist.  
 W. E. HESS, Expert gardener.

## AGRICULTURAL EDUCATION.

D. J. CROSBY, M. S., Specialist in agricultural education.  
 C. H. LANE, M. A., B. S. A., Assistant in agricultural education.  
 JOHN HAMILTON, B. S., M. S. A., Farmers' institute specialist.  
 J. M. STEDMAN, B. S., Assistant farmers' institute specialist.

## NUTRITION INVESTIGATIONS.

C. F. LANGWORTHY, Ph. D., Chief of nutrition investigations.  
 R. D. MILNER, Ph. B., Assistant in nutrition investigations.  
 S. C. CLARK, B. S., M. A., Assistant in nutrition laboratory.  
 W. P. GARRETY, B. S., M. A., Assistant in nutrition laboratory.

## IRRIGATION INVESTIGATIONS.

SAMUEL FORTIER, D. Sc., Chief of irrigation investigations.

R. P. TEELE,<sup>1</sup> M. A., Assistant chief.

FRED G. HARDEN, M. A., Assistant in Washington office.

*Irrigation engineers and irrigation managers.*—A. P. STOVER, M. S. in C. E., in charge of work in southern Oregon; C. E. TAIT, B. A., in charge of work in southern California; S. O. JAYNE, B. S., in charge of work in Washington; FRANK ADAMS, M. A., in charge of work in California; W. W. McLAUGHLIN, B. S., in charge of work in Utah; P. E. FULLER, in charge of work in Arizona and of power investigations; W. L. ROCKWELL, C. E., in charge of work in Texas; M. B. WILLIAMS, B. C. E., in charge of work in humid sections; F. L. BIXBY, B. S., in charge of investigations in New Mexico; D. H. BARK, B. S., in charge of work in Idaho; C. G. HASKELL, C. E., in charge of rice investigations; R. D. ROBERTSON, B. S., assistant to manager in California; F. C. SCOBEE, in charge of work in Wyoming; S. T. HARDING, in charge of work in Montana and North Dakota; F. L. PETERSON, B. S. in M. E., in charge of work in Nevada; F. W. STANLEY, B. S., Assistant in humid sections; H. W. GRUNSKY, A. B., LL. B., in charge of work in Oregon.  
*Agent.*—J. W. LONGSTRETH, in charge of work in Kansas.

*Expert mechanic.*—E. J. HOFF.

*Irrigation farmers.*—J. H. GORDON; R. G. HEMPHILL, B. S.; W. H. LAUCK; R. E. MAHONEY; and JOHN KRALL, Jr.

*Collaborators.*—O. V. P. STOUT, C. E., Nebraska, University of Nebraska; W. B. GREGORY, M. E., in charge of pumping for rice investigations, Tulane University, New Orleans, La.; V. M. CONE, B. S., in charge of work in Colorado, State Agricultural College; S. H. BECKETT, B. S., California, University of California.

## DRAINAGE INVESTIGATIONS.

C. G. ELLIOTT, C. E., Chief drainage engineer and chief of drainage investigations.

A. D. MOREHOUSE, M. E., Office engineer and assistant chief of drainage investigations.

*Office engineer.*—R. D. MARSDEN, B. S.

*Assistant office engineer.*—H. H. BARROWS, C. E.

*Draftsmen.*—G. F. POHLERS, H. B. ARTLEY, J. G. HANFORD.

*Senior clerk.*—H. S. YOHE.

*Drainage engineers.*—S. H. McCRORY, B. S.; H. A. KIPP, B. S. in C. E.; F. F. SHAFER, C. E.; O. G. BAXTER, C. E.; G. M. WARREN, B. S.; D. L. YARNELL, B. C. E.; J. V. PHILLIPS, B. S.; F. G. EASON, B. S., C. E.; C. W. OKEY, B. C. E.

*Assistant drainage engineers.*—J. R. HASWELL, C. E.; N. B. WADE, B. S. in C. E.; W. J. SCHLICK, B. C. E.; A. G. HALL, B. S.; C. W. MENGEL, B. S.

*Drainage engineers for irrigated lands.*—R. A. HART, B. S.; D. G. MILLER, B. S.; W. W. WEIR; S. W. COOPER; W. A. KELLY, B. S.; W. N. HALL; W. G. SLOAN, B. S. in C. E.

*Engineers available for special work.*—S. M. WOODWARD, M. S., M. A.; A. E. MORGAN; C. F. BROWN, M. S.; L. L. HIDINGER, B. C. E.

<sup>1</sup> On furlough; in charge of irrigation census, Bureau of the Census.

## OFFICERS OF THE ASSOCIATION OF AMERICAN AGRICULTURAL COLLEGES AND EXPERIMENT STATIONS.

---

*President.*—W. E. STONE, of Indiana.

*Vice Presidents.*—E. W. ALLEN, of Washington, D. C.; W. M. RIGGS, of South Carolina; C. P. GILLETTE, of Colorado; THOMAS F. HUNT, of Pennsylvania; P. P. CLAXTON, of Washington, D. C.

*Secretary-Treasurer.*—J. L. HILLS, of Vermont.

*Bibliographer.*—A. C. TRUE, of Washington, D. C.

*Executive committee.*—W. O. THOMPSON, of Ohio, Chairman; W. H. JORDAN, of New York; D. H. HILL, of North Carolina; E. E. SPARKS, of Pennsylvania; H. L. RUSSELL, of Wisconsin.

*Sections.*—Section on College Work and Administration: J. H. CONNELL, of Oklahoma, Chairman; E. D. SANDERSON, of West Virginia, Secretary. Committee on Program: The CHAIRMAN and SECRETARY.

Section on Experiment Station Work: F. B. MUMFORD, of Missouri, Chairman; R. W. THATCHER, of Washington, Secretary; W. H. BEAL, of Washington, D. C., Recording Secretary. Committee on Program: The CHAIRMAN, the SECRETARY, and THOMAS F. HUNT, of Pennsylvania.

Section on Extension Work: G. I. CHRISTIE, of Indiana, Chairman; A. B. GRAHAM, of Ohio, Secretary. Committee on Program: The CHAIRMAN, the SECRETARY, and JOHN HAMILTON, of Washington, D. C.

*Standing committees.*—Committee on Instruction in Agriculture: For three years, A. C. TRUE, of Washington, D. C., Chairman, and T. F. HUNT, of Pennsylvania; for two years, H. J. WATERS, of Kansas, and H. C. WHITE, of Georgia; for one year, J. F. DUGGAR, of Alabama, and W. E. STONE, of Indiana.

Committee on Graduate Study: For three years, H. P. ARMSBY, of Pennsylvania, Chairman, and HOWARD EDWARDS, of Rhode Island; for two years, H. J. WEBBER, of New York, and EUGENE DAVENPORT, of Illinois; for one year, W. O. THOMPSON, of Ohio, and BROWN AYRES, of Tennessee.

Committee on Extension Work: For three years, W. D. HURD, of Massachusetts, Chairman, and H. L. RUSSELL, of Wisconsin; for two years, W. C. LATTI, of Indiana, and C. F. CURTISS, of Iowa; for one year, A. M. SOULE, of Georgia, and E. A. BURNETT, of Nebraska.

Committee on Experiment Station Organization and Policy: For three years, EUGENE DAVENPORT, of Illinois, Chairman, and C. D. WOODS, of Maine; for two years, H. J. WHEELER, of Rhode Island, and E. W. ALLEN, of Washington, D. C.; for one year, M. A. SCOVELL, of Kentucky, and C. E. THORNE, of Ohio.

Committee on College Organization and Policy: For three years, SAMUEL AVERY, of Nebraska, and J. C. HARDY, of Mississippi; for two years, W. E. STONE, of Indiana, Chairman, and A. R. HILL, of Missouri; for one year, W. D. GIBBS, of New Hampshire, and J. M. HAMILTON, of Montana.

---

## OFFICERS OF THE AMERICAN ASSOCIATION OF FARMERS' INSTITUTE WORKERS.

---

*President.*—FRANKLIN DYE, of Trenton, N. J.

*Vice President.*—F. H. RANKIN, of Urbana, Ill.

*Secretary-Treasurer.*—JOHN HAMILTON, U. S. Department of Agriculture, Washington, D. C.

*Executive committee.*—The PRESIDENT and the SECRETARY TREASURER, ex officio; J. H. MILLER, of Manhattan, Kans., Chairman; W. J. BLACK, of Winnipeg, Canada; Mrs. F. L. STEVENS, of West Raleigh, N. C.



## AGRICULTURAL COLLEGES AND EXPERIMENT STATIONS.

NOTE.—Members of boards of trustees or other governing boards of the college who are specially charged with the management of experiment station affairs are indicated by an asterisk (\*).

### ALABAMA.

#### Alabama Polytechnic Institute, Auburn.

##### GOVERNING BOARD.

Trustees: Gov. Emmet O'Neal (*Pres. ex officio*), *Montgomery*; H. J. Willingham (*Supt. of Education, ex officio*), *Montgomery*; W. K. Terry, *Birmingham*; J. S. Frazer, *Evergreen*; N. D. Denson, *Lafayette*; H. L. Martin, *Ozark*; R. B. Barnes, *Opelika*; A. W. Bell, *Anniston*; W. F. Feagin, *Montgomery*; R. F. Kolb, *Montgomery*; J. A. Rogers, *Gainesville*; C. M. Sherrod, *Courtland*; J. H. Drake, (*Surgeon*), *Auburn*; R. W. Burton (*Sec.*), *Auburn*; Miss A. M. Glenn (*Treas.*), *Auburn*.

##### COURSES OF STUDY.

There are nine regular four-year courses (B. S. degree), viz: Agriculture, civil engineering, electrical engineering, mechanical engineering, mining engineering, architecture, pharmacy, general course, and chemistry and metallurgy; three-year courses in pharmacy (Ph. C.) and in veterinary medicine and surgery (D. V. M.); two-year courses in agriculture (certificate), mechanic arts, and pharmacy (Ph. G.); a one-year special course in agriculture, arranged for students who have only a limited time to devote to this study; and a summer school for farmers. Postgraduate work is offered.

##### BOARD OF INSTRUCTION.

Charles C. Thach, M. A., LL D., *President; Psychology.*

George Petrie, Ph. D., *Dean of Academic Depts.; Hist., Lat.*  
 Bennett B. Ross, M. S., *Dean of Agr. Sci.; Gen. and Agr. Chem.; State Chem.*  
 John J. Wilmore, M. E., *Dean of Engin. Faculty; Mech. Engin.; Dir. of Laboratories.*  
 Charles A. Cary, B. S., D. V. M., *Dean College of Vet. Med. and Surgery; Physiol., Vet. Sci.; State Vet.; in charge of Farmers' Insts.*  
 John F. Duggar, M. S., *Agr.*  
 John E. Wiatt, M. A., *Mod. Lang.*  
 James P. C. Southall, M. A., *Phys.*  
 Benj. S. Patrick, M. S., *Comdt.; Mil. Sci.*  
 Geo. N. Mitcham, C. E., E. M., *Civil Engin.*  
 Bolling H. Crenshaw, B. S., M. E., *Math.*  
 Emerson R. Miller, M. S., *Pharm., Chem.*  
 Warren E. Hinds, Ph. D., *Ent.*  
 Michael T. Fullan, M. E., *Mech. Draw., Mech. Design.*  
 Clifford L. Hare, M. S., M. A., *Phys., Physiol. Chem.*  
 Daniel T. Gray, A. B., M. S., *Animal Indus.*  
 Francis E. Lloyd, A. M., *Bot.*  
 L. N. Duncan, M. S., *Agr. School Ext. Work.*  
 Percy F. Williams, B. S., *Hort., For.; State Hort.*  
 Reuben D. Webb, M. S., (*Assoc.*) *Rhet.*  
 J. F. Messick, Ph. D., (*Assoc.*) *Math.*  
 James R. Rutland, A. B., (*Asst.*) *Engl.; Libr.*

Thomas Bragg, M. S., (*Asst.*) *Chem.*  
 Chas. S. Williamson, M. S., (*Asst.*) *Chem.*  
 Michael J. Donahue, A. B., (*Asst.*) *Engl., Math.; Phys. Dir.*  
 Berner L. Shi, C. E., (*Asst.*) *Math.; Registrar.*  
 John B. Hobdy, M. S., *Agr. Field Ext. Work.*  
 William B. Stokes, M. E., *Instr. Mech. Arts.*  
 William L. Mitchell, M. E., *Instr. Mech. Arts.*  
 Isaac S. McAdory, B. S., D. V. M., *Instr. Vet. Sci.*  
 Chas. S. Ridgway, B. S., *Instr. Bot.*  
 M. J. Funchess, M. S., *Instr. Agr.*  
 William F. Turner, B. S., *Instr. Ent.*  
 J. C. C. Price, B. S., *Instr. Hort.*  
 P. B. Bahnsen, V. S., *Lect. on Phys. Diagnosis.*  
 Wm. M. Howell, D. V. M., *Instr. Vet. Med., Surgery.*  
 Roy B. Whitesell, D. V. M., *Instr. Vet. Med., Surgery.*  
 Henry M. Conolly, B. S., *Field Asst. in Hort.*  
 P. P. Powell, B. S., *Asst. in Chem.*  
 Edward T. Collier, B. S., *Asst. in Engl.*  
 Milner H. Eskew, B. S., *Asst. in Pharm.*  
 Jemison M. Moseley, jr., B. S., *Asst. in Pharm.*  
 William L. Lamar, jr., Ph. G., *Asst. in Pharm.*  
 Frederick Stewart, B. S., *Asst. in Agr.*  
 L. W. Summers, B. S., *Asst. in Animal Indus.*  
 Riley G. Arnold, B. S., *Asst. in Bot.*  
 Edgar A. Hodson, B. S., *Asst. in Plant Path.*

**Agricultural Experiment Station of the Alabama Polytechnic Institute, Auburn.**

Department of the Alabama Polytechnic Institute, under the control of the board of trustees.

## STATION STAFF.

J. F. Duggar, M. S., *Dir.; Agr.*  
 B. B. Ross, M. S., *Chem.; State Chem.*  
 C. A. Cary, B. S., D. V. M., *Vet.; Dir. Farmers' Insts.*  
 F. E. Lloyd, A. M., *Bot.*  
 P. F. Williams, B. S., *Hort.*  
 J. T. Anderson, Ph. D., *Chem., Soil and Crop Invest.*  
 D. T. Gray, A. B., M. S., *Animal Indus.*  
 W. E. Hinds, Ph. D., *Ent.*  
 C. L. Hare, M. S., M. A., *Chem.*  
 L. N. Duncan,<sup>1</sup> M. S., *Supt. Ext. Work.*  
 F. A. Wolf, Ph. D., *Plant Path.*  
 Thomas Bragg, M. S., *First Asst. Chem.*  
 E. F. Cauthen, B. S., *Assoc. Agr.; Recorder.*  
 W. F. Ward,<sup>1</sup> M. S., *Junior Animal Husb.*  
 I. S. McAdory, B. S., D. V. M., *Asst. in Vet. Sci.*  
 W. F. Turner, B. S., *Asst. Ent.*

M. J. Funchess, M. S., *Asst. Agr.*  
 J. B. Hobby,<sup>1</sup> M. S., *Asst. in Ext. Work.*  
 C. S. Ridgway, B. S., *Asst. Bot.*  
 J. C. C. Price, B. S., *Asst. Hort.*  
 L. W. Shook, B. S., *Asst. in Animal Indus.*  
 E. R. Eudaly,<sup>1</sup> B. S., *Asst. in Beef and Swine Husb.*  
 J. T. Williamson, B. S., *Field Agt. in Agr.*  
 L. L. Glover, B. S., *Field Agt. in Agr.*  
 H. M. Conolly, B. S., *Field Asst. in Hort.*  
 E. A. Hodson, B. S., *Asst. Agr.*  
 J. Cohen, B. S., *Asst. Chem.*  
 I. W. Carpenter, B. S., *Field Asst. in Ent.*  
 L. W. Summers, B. S., *Asst. in Animal Indus.*  
 S. S. Jerdan,<sup>1</sup> B. S., *Asst. in Beef Husb.*  
 A. R. Gissendanner, B. S., *Asst. in Swine Husb.*  
 C. D. Ellis, B. S., *Asst. in Poultry Husb.*

**Agricultural and Mechanical College for Negroes, Normal.**

## GOVERNING BOARD.

Trustees: Gov. Emmet O'Neal, *Montgomery*; H. J. Willingham (*Supt. of Education*), *Montgomery*; S. J. Mayhew (*Chair., Treas.*), *Huntsville*; D. A. Grayson, *Huntsville*; Ben P. Hunt (*Sec.*), *Huntsville*.

## COURSES OF STUDY.

The college is divided into two departments—literary and industrial. The courses requiring four years for completion are as follows: Scientific (B. S.), agricultural, and mechanical. Courses covering from one to four years are given in a number of different industrial and literary subjects. A teachers' training course and a commercial course are also offered.

## BOARD OF INSTRUCTION.

Walter S. Buchanan, B. S. A., *President; Agriculture.*

Elias Murdock, *Truck Farming, Agr.*  
 Margaret A. Walker, *Cooking, Raffia Work.*  
 Elizabeth B. Cooke, *Millinery, Sew.*  
 Mrs. Alice Watkins, *Housekeeping.*

Carrie L. Anderson, *Laundering.*  
 Pearl L. Shines, *Nurse Training.*  
 Malvina A. Morris, *Asst. Nurse.*

**Canebrake Agricultural Experiment Station, Uniontown.**

## GOVERNING BOARD.

Board of control: R. R. Poole (*Chair.*), *Uniontown*; O. L. Woodfin (*Treas.*), *Uniontown*; John C. Webb, *Demopolis*; C. L. Johnston, *Uniontown*; E. B. Martin, *Martins Station*.

## STATION STAFF.

L. H. Moore, *Director; Sec.*

**Agricultural School of the Tuskegee Normal and Industrial Institute, Tuskegee Institute.**

## GOVERNING BOARD.

Board of trustees: Seth Low (*Pres.*), *30 East Sixty-fourth Street, New York City*; Wright W. Campbell\* (*V. Pres.*), *Tuskegee*; Warren Logan\* (*Treas.*), *Tuskegee Institute*; R. C. Bedford (*Sec.*), *832 Park Avenue, Beloit, Wis.*; George F. Peabody, *43 Exchange Place, New York City*; Wm. G. Willcox, *27 Williams Street, New York City*; R. O. Simpson, *Furman*; Robert C. Ogden, *125 East Fifty-sixth Street, New York City*; John C. Grant, *4651 Drexel Boulevard, Chicago, Ill.*; V. H. Tulane, *433 South Ripley Street, Montgomery*; Belton Gilreath, *Birmingham*; Chas. W. Hare,\* *Tuskegee*; Booker T. Washington,\* *Tuskegee Institute*; A. J. Wilborn,\* *Tuskegee*; Charles F. Dole, *Jamaica Plain, Mass.*; Wm. J. Schieffelin, *170 William Street, New York City*; Charles E. Mason, *120 Franklin Street, Boston, Mass.*; Frank Trumbull, *71 Broadway, New York City*; Theodore Roosevelt, *287 Fourth Avenue, New York City*.

<sup>1</sup>In cooperation with the U. S. Department of Agriculture.

## COURSES OF STUDY.

The institute is divided into six departments: Academic, Bible training school, mechanical industries, domestic economy or industries for girls, hospital and nurse-training school, and agriculture.

The school of agriculture offers a four-year course in agriculture and two-year courses in live stock and dairying, truck gardening, poultry raising, agriculture, road building, landscape gardening, and fruit growing; also a two-year course in elementary agriculture for academic students, and a two weeks' school for farmers. Postgraduate work is offered.

## BOARD OF INSTRUCTION.

Booker T. Washington, *Principal*.

George R. Bridgeforth, B. S., *Dir. Agr. Indus.*  
 George W. Carver, M. S. Agr., *Dir. Agr. Instr.*  
 Thomas N. Cowan, *Farm Supt.*  
 R. A. Clark, *Asst. in Charge of Feed and Supply.*  
 O. W. Ferguson, *Asst. to Farm Supt.; Instr. Canning.*  
 John D. Wray, *Asst. to Farm Supt.*  
 A. Chandler, *Asst. to Farm Supt.*  
 C. W. Greene, *Truck Gard.*  
 Augustus McGriff, *Fruit Growing.*  
 R. S. Pompey, *Dairy Husb., Dairying.*  
 Matthew Woods, *Asst. Dairy Husb., Dairying.*  
 A. A. Turner, *Creamery.*  
 Almancey L. Evans, *Poultry Raising.*  
 R. R. Robinson, *Swine Raising.*  
 H. B. Jordan, *Animal Husb.*  
 M. F. Ballentine, *Asst. Animal Husb.*  
 L. J. Watkins, *Road Building and Survey.*  
 J. H. Bias, *Vet.*  
 Mrs. Booker T. Washington, *Dir. Indus. for Girls.*  
 Maj. J. B. Ramsey, *Comdt.*  
 Capt. G. J. Austin, *Asst. to Comdt.*

Capt. W. H. Walcott, *Asst. to Comdt.*  
 Susan M. Russell, *Dom. Sci.*  
 Mary L. Runyon, *Dom. Sci.*  
 Alma Jones, *Dom. Sci.*  
 Lillian R. Johnson, *Ladies' Tailoring.*  
 Hattie E. King, *Dressmaking.*  
 Margery E. Smith, *Plain Sew.*  
 Cornelia A. Vivian, *Millinery.*  
 Carrie C. Smith, *Upholstering and Mattress Making.*  
 William S. Nelson, *Laundrying.*  
 Ophelia Donaldson, *Asst. in Laundrying.*  
 Minnie E. Davis, *Asst. in Laundrying.*  
 Sarah P. Martin, *Asst. to Directress.*  
 Susan H. Porter, *Dean Women's Dept*  
 Mary E. Davis, *Housekeeping.*  
 Jane Weyman, *Housekeeping.*  
 Virginia Driver, *Housekeeping.*  
 Mary E. Worrell, *Housekeeping.*  
 John H. Palmer, *Registrar.*  
 Chas. W. Wood, *Libr.*  
 Frieda F. Armstrong, *Phys. Training.*

## Tuskegee Agricultural Experiment Station, Tuskegee Institute.

Department of the Tuskegee Normal and Industrial Institute, under the control of the board of trustees of the institute.

## STATION STAFF.

G. W. Carver, M. S. Agr., *Dir.*  
 O. W. Ferguson, *in charge of Canning Work.*  
 G. R. Bridgeforth, B. S., *Dir. Agr. Dept.*  
 R. A. Clark, *Asst. to Dir. Agr. Dept.*  
 T. N. Cowan, *Farm Supt.*  
 J. D. Wray, *Asst. to Farm Supt.*  
 Augustus McGriff, *Asst. to Farm Supt.*  
 R. S. Pompey, *Dairy Husb.*  
 Matthew Woods, *Asst. in Dairy Husb.*  
 C. W. Greene, *Truck Gard.*  
 A. A. Turner, *Dairying.*

A. L. Evans, *Poultry Raising.*  
 R. R. Robinson, *in charge of Swine Herd.*  
 H. B. Jordan, *in charge of Horses and Mules.*  
 M. F. Ballentine, *Asst. in charge of Horses and Mules.*  
 T. M. Campbell, *Demonstrative and Farmers' Inst. Work.*  
 R. E. Malone, *Fruit Growing.*  
 L. J. Watkins, *Road Building and Construction Work.*  
 J. H. Bias, *Vet.*  
 W. A. Tate, *U. S. Demonstration Work.*

## ALASKA.

Alaska Agricultural Experiment Stations, *Sitka, Kodiak, Rampart, and Fairbanks.*

Under the supervision of A. C. True, Director Office of Experiment Stations, United States Department of Agriculture.

## STATION STAFF.

C. C. Georgeson, M. S., *Special Agent in Charge, Sitka.*  
 A. J. Wilkus, *Asst. at Sitka.*  
 G. W. Gasser, B. S., *Asst. at Rampart.*

M. D. Snodgrass, B. S., *Asst. at Kodiak.*  
 Laurence Kelly, *Asst. Dairyman at Kodiak.*  
 C. W. Heideman, jr., *Herdsmen at Kodiak.*  
 J. W. Neal, *Asst. at Fairbanks.*

## ARIZONA.

University of Arizona, *Tucson.*

## GOVERNING BOARD.

Board of regents: M. P. Freeman (*Chancellor, Pres.*), *Tucson*; Chas. H. Bayless (*Treas.*), *Tucson*; Gov. Richard E. Sloan (*ex officio*), *Phoenix*; K. T. Moore, (*Supt. of Public Instr., ex officio, Sec.*), *Phoenix*; John C. Greenway, *Warren*; W. J. Murphy, *Phoenix*.

## COURSES OF STUDY.

The university offers eight regular four-year courses of study leading to a degree, viz: Literary (A. B.); scientific, metallurgy, mining engineering, civil engineering, electrical engineering, mechanical engineering, and agriculture (B. S.); also a two-year agricultural and a four-year preparatory course.

## BOARD OF INSTRUCTION.

Arthur H. Wilde, Ph. D., *President; History.*

A. E. Douglass, A. B., Sc. D., *Phys., Astron.*  
 Ernest S. Bates, Ph. D., *Engl.*  
 Frank N. Guild, M. A., M. S., *Chem.*  
 John J. Thornber, B. S., A. M., *Biol.*  
 W. W. Henley, A. B., *Mech. Arts, Mech. Engin.*  
 R. W. Clothier, M. S., *Agr.; in charge of Farmers' Insts.*  
 Chas. A. Turrell, B. S., M. A., *Mod. Lang.*  
 Hiram McL. Powell, Capt., U. S. A., *Mil. Sci. and Tactics.*  
 H. A. E. Chandler, B. S., *Econ. and Hist.*  
 Nathan C. Grimes, A. M., *Math.*  
 L. A. Waterbury, B. S., C. E., *Civil Engin.*

W. G. Medcraft, A. M., (*Asst.*) *Math.*  
 B. Tatarian, (*Asst.*) *Chem.*  
 Frances M. Perry, A. M., (*Asst.*) *Engl.*  
 W. L. Fowler, B. S., (*Asst.*) *Animal Husb.*  
 Estelle G. Luttrell, B. A., *Instr. Engl.; Libr.*  
 Ida C. Reid, B. S., Ph. B., *Instr. Hist., Math.*  
 F. L. Kleeberger, B. S., *Instr. Phys. Training, Chem.*  
 Josephine Mack, B. A., *Instr. Engl., Phys. Training.*  
 James G. Brown, *Instr. Bot.*  
 Arthur H. Otis, A. B., *Instr. Mod. Lang.*  
 Ida W. Douglass, Ph. B., *Instr. Phys. Geog.*  
 Angela E. O'Byrne, *Instr. Music.*

## Agricultural Experiment Station of the University of Arizona, Tucson.

Department of the University of Arizona, under the control of the board of regents.

## STATION STAFF.

R. H. Forbes, M. S., *Dir.; Chem.*  
 J. J. Thornber, B. S., A. M., *Bot.*  
 A. E. Vinson, Ph. D., *Biochem.*  
 F. W. Wilson, B. S., (*Phoenix*), *Animal Husb.*  
 G. E. P. Smith, C. E., *Irrig. Engin.*  
 R. W. Clothier, M. S., *Agr.; in charge of Dry-Land Invest.*

G. F. Freeman, B. S., *Plant Breeding.*  
 A. W. Morrill, Ph. D., (*Phoenix*), *Ent.*  
 W. H. Ross, Ph. D., *Asst. Chem.*  
 F. C. Kelton, B. S., *Asst. Engin.*  
 A. M. McOmie, B. S., *Asst. Agr.; in charge of Farmers' Insts.*  
 E. D. Trout, *Sec.*

## ARKANSAS.

## College of Agriculture of the University of Arkansas, Fayetteville.

## GOVERNING BOARD.

Board of trustees: Gov. Geo. W. Donaghey \* (*ex officio Pres.*), *Little Rock*; Geo. B. Cook (*State Supt. of Public Instr., ex officio*), *Little Rock*; W. H. Cravens, (*Sec.*), *Fayetteville*; Jack Walker (*Treas.*), *Fayetteville*; F. P. Hall, \* *Fayetteville*; Gustave Jones, \* *Newport*; R. O. Herbert, *Greenwood*; H. B. McKenzie, *Prescott*; C. C. Reid, *Little Rock*; Arthur Turner, \* *Jonesboro*; Edgar Brewster, \* *Pine Bluff*.

## COURSES OF STUDY.

The college of agriculture offers a four-year course leading to the degree of B. S. A., a two-year course leading to a certificate, a three weeks' winter course for farmers, and a correspondence course in agriculture. Graduate work leading to the master's degree is also given.

## BOARD OF INSTRUCTION.

John N. Tillman, LL. D., *President of the University.*

Charles F. Adams, B. Agr., A. M., M. D., *Dean College of Agr.; Supt. Farmers' Insts.*  
 R. R. Dinwiddie, V. S., M. D., *Consulting Path. and Bact.*  
 Ernest Walker, B. S. A., *Hort.*  
 C. G. Carroll, Ph. D., *Chem.*  
 G. E. Ripley, M. S., *Phys.*  
 E. F. Shannon, *Engl.*  
 Martin Nelson, B. S. A., M. S., *Agron.*  
 J. Lee Hewitt, B. S. A., *Plant Path., Physiol.*  
 H. E. Morrow, B. S. A., (*Assoc.*) *Chem.*  
 J. M. Wilson, B. S. A., *Asst. Supt. of Ext. Work.*  
 Carl H. Tourgee, B. S. Agr., *Dairy Husb.*  
 J. F. Stanford, V. S., *Vet. Sci.*  
 Paul Hayhurst, A. B., *Ent.*

R. C. Thompson, B. S., *Agr. Chem.*  
 Carl Christopher, B. S. A., M. S., *Animal Husb.*  
 Garland Greever, A. M., (*Assoc.*) *Engl. and Mod. Lang.*  
 Robt. D. Carter, Lieut., U. S. A., *Mil. Sci. and Tactics; Comdt.*  
 Chas. V. Ruzek, B. S., (*Adjunct*) *Agron.*  
 R. M. Gow, D. V. M., (*Adjunct*) *Vet. Sci.*  
 J. M. Borders, B. S. A., *Asst. in Ext. Work.*  
 W. C. Lasseter, B. S., *Asst. in Agron.*  
 James Yowell, B. S. A., *Asst. in Animal Husb.*  
 H. E. Stevens, B. Agr., M. S., *Asst. in Plant Path.*  
 Geo. G. Becker, B. S. A., *Asst. in Ent.*  
 H. S. Mobley,<sup>1</sup> *Field Agt. in charge of Boys' Clubs.*  
 Mrs. Mary Austin, *Libr.*

<sup>1</sup> In cooperation with the U. S. Department of Agriculture.



**Arkansas Agricultural Experiment Station, Fayetteville.**

Department of the University of Arkansas, under the control of the board of trustees.

STATION STAFF.

C. F. Adams, B. Agr., A. M., M. D., *Dir.*  
R. R. Dinwiddie, V. S., M. D., *Path. and Bact.*  
Ernest Walker, B. S. A., *Hort.*  
Martin Nelson, B. S. A., M. S., *Agron.*  
J. L. Hewitt, B. S. A., *Plant Path.*  
J. F. Stanford, V. S., *Vet., Asst. Bact.*  
C. H. Tourgee, B. S. Agr., *Dairy Husb.*  
R. C. Thompson, B. S., *Agr. Chem.*  
Paul Hayhurst, A. B., *Ent.*

R. M. Gow, D. V. M., *Asst. Vet.*  
Carl Christopher, B. S. A., M. S., *Asst. Animal Husb.*  
C. V. Ruzek, B. S., *Asst. Agron.*  
W. C. Lassetter, B. S., *Asst. Agron.*  
James Yowell, B. S. A., *Asst. Animal Husb.*  
H. E. Stevens, B. Agr., M. S., *Asst. in Plant Path.*  
G. G. Becker, B. S. A., *Asst. Ent.*  
L. L. Wootton, B. A., *Libr.*

**CALIFORNIA.**

**College of Agriculture of the University of California, Berkeley.**

GOVERNING BOARD.

The regents of the university: Gov. Hiram W. Johnson (*ex officio Pres.*), *Sacramento*; A. J. Wallace (*Lieut. Gov.*), *Los Angeles*; A. H. Hewitt (*Speaker of the Assembly*), *Yuba City*; Edward Hyatt (*State Supt. of Public Instr.*), *Sacramento*; A. Lowndes Scott\* (*Pres. State Agr. Society*), *Seventh and Townsend Streets, San Francisco*; R. J. Taussig, *Main and Mission Streets, San Francisco*; Benjamin I. Wheeler (*Pres. of the Univ.*), *President's House, Berkeley*; Truxton Beale, *Pacific Union Club, San Francisco*; Philip E. Bowles, *427 California Street, San Francisco*; John A. Britton, *445 Sutter Street, San Francisco*; John E. Budd, *McDougal Building, Stockton*; Wm. H. Crocker, *Crocker National Bank, San Francisco*; F. W. Dohrmann, *201 Geary Street, San Francisco*; Guy C. Earl,\* *1005 Shreve Building, San Francisco*; A. W. Foster, *1210 James Flood Building, San Francisco*; Mrs. Phoebe A. Hearst, *Pleasanton*; Isaias W. Hellman, *Wells Fargo-Nevada National Bank, San Francisco*; Garrett W. McEnerney, *1277 James Flood Building, San Francisco*; James W. McKinley, *432 Pacific Electric Building, Los Angeles*; Chester Rowell, *Fresno*; Charles S. Wheeler, *Nevada Bank Building, San Francisco*; Rev. P. C. Yorke, *1267 Sixteenth Avenue, Oakland*; James K. Moffitt, *First National Bank, San Francisco*; Victor H. Henderson (*Sec.*), *Berkeley*.

COURSES OF STUDY.

The university comprises several departments. The college of agriculture has a four-year general and a four-year technical course in agriculture, each leading to the degree of B. S.; short courses in agriculture covering from two to eight weeks each; a six weeks' summer school for teachers, and a farmers' week.

BOARD OF INSTRUCTION.<sup>1</sup>

Benjamin Ide Wheeler, Ph. D., LL. D., *President of the University.*

Edward J. Wickson, M. A., *Dean of Agr.; Agr.*  
Eugene W. Hilgard, Ph. D., LL. D., *Agr. Emeritus.*  
Wm. A. Setchell, Ph. D., *Bot.*  
Leroy Anderson, M. S. A., Ph. D., *Agr. Pract.; Supt. Univ. Farm School.*  
Myer E. Jaffa, M. S., *Nutr.*  
Robt. H. Loughridge, Ph. D., *Agr. Chem. Emeritus.*  
Chas. W. Woodworth, M. S., (*Assoc.*) *Ent.*  
George W. Shaw, Ph. D., (*Assoc.*) *Expt. Agron., Agr. Tech.*  
Ralph E. Smith, B. S., (*Whittier*), (*Assoc.*) *Plant Path.; Supt. Southern California Substations.*  
E. W. Major,<sup>2</sup> B. Agr., (*Davis*), *Farm Mgr. Univ. Farm.; (Assoc.) Animal Indus.*  
F. T. Bioletti, M. S., (*Assoc.*) *Vit.*  
J. H. Norton, B. Agr., M. S., (*Whittier*), (*Asst.*) *Agr. Chem.*  
Geo. E. Colby, M. S., (*Asst.*) *Agr. Chem.*  
Henry J. Quayle, A. B., (*Whittier*), (*Asst.*) *Ent.*  
Wm. B. Herms, B. S., M. A., (*Asst.*) *Ent.*  
Clarence M. Haring, D. V. M., (*Asst.*) *Vet. Sci.*  
Harvey M. Hall, Ph. D., (*Asst.*) *Bot.*  
Bernard A. Etcheverry, B. S., (*Asst.*) *Irrig. Engin.*

W. T. Clarke, B. S., (*Asst.*) *Hort.; Supt. of Univ. Ext. in Agr.*  
E. B. Babcock, B. S., (*Asst.*) *Agr. Ed.*  
John S. Burd, B. S., (*Asst.*) *Agr. Chem. in charge of Fert. Control.*  
Wm. T. Horne, B. S., (*Asst.*) *Plant Path.*  
John E. Coit, Ph. D., (*Whittier*), (*Asst.*) *Pomol.*  
Charles B. Lipman, Ph. D., (*Asst.*) *Soil Bact.*  
J. B. Neff, (*Anaheim*), *Conductor Farmers' Insts. in Southern California.*  
Robert E. Mansell,<sup>2</sup> *Instr. Hort.*  
J. C. Bridwell, B. S., *Instr. Ent.*  
Emil H. Hagemann, (*Davis*), *Instr. Dairying.*  
E. J. Lea, M. S., *Instr. Agr. Chem.*  
C. H. McCharles, B. S., *Instr. Agr. Chem.*  
Arthur W. Clegghorn, A. B., (*Davis*), *Prin. Univ. Farm School; Instr. Engl., Math.*  
R. M. Roberts, B. S. A., (*Davis*), *Instr. Farm Pract.; Asst. Supt.*  
L. M. Davis, B. S., (*Davis*), *Instr. Dairy Indus.*  
Howard Phillips, B. S., (*Davis*), *Instr. Animal Indus.*  
Cyril A. Stebbins, B. S., *Instr. Agr. Ed.*

<sup>1</sup> Includes only instructors in subjects *directly relating to agriculture*. Other members of the university may give instruction to students pursuing the agricultural course.

<sup>2</sup> On leave.

Wm. G. Hummel, B. S., *Instr. Agr. Ed.*  
 Chas. M. Titus, A. M., *Instr. Math. and Surveying.*  
 J. I. Thompson, B. S., (*Davis*), *Instr. Animal Indus.*  
 Ross C. Ingram, (*Davis*), *Instr. Shop Work.*  
 S. S. Rogers, B. S., (*Whittier*), *Asst. in Plant Path.*  
 A. J. Gaumnitz, M. S. A., (*Davis*), *Asst. in Agron.*  
 Thomas F. Hunt, B. S., *Asst. in Plant Path.*  
 W. V. Cruess, B. S., *Asst. in Agron.*  
 A. B. Shaw, B. S., *Asst. in Ent.*  
 Elizabeth H. Smith, A. B., M. S., *Asst. in Plant Path.*  
 Mattie E. Stover, B. S., *Asst. in Agr. Lab.*  
 Frank E. Johnson, B. L., M. S., *Asst. in Soil Lab.*  
 P. L. Hibbard, B. S., *Asst. in Fert. Control.*

P. L. McCreary, B. S., *Asst. in Fert. Control.*  
 B. A. Madson, B. S., *Asst. in Cereal Lab.*  
 F. C. H. Flossfeder, (*Davis*), *Asst. in Vit.*  
 W. E. Packard, M. S., (*El Centro*), *in charge of Invest. at Imperial Valley Substa.*  
 N. D. Ingham, (*Santa Monica*), *Asst. in Silviculture.*  
 L. Bonnet, *Asst. in Vit.*  
 Earl L. Morris, B. S., (*San José*), *Field Asst. in Ent.*  
 W. H. Volek, (*Watsonville*), *Field Asst. in Ent.*  
 B. S. Brown, B. S., (*Davis*), *Asst. in Hort.*  
 H. A. Ruehe, B. S., (*Davis*), *Asst. in Dairy Husb.*  
 E. E. Thomas, (*Whittier*), *Asst. in Agr. Chem.*  
 H. D. Young, B. S., (*Whittier*), *Asst. in Chem.*  
 A. R. Tylor, B. S., (*Whittier*), *Asst. in Soils.*

### Agricultural Experiment Station of the University of California, Berkeley.

Department of the University of California under the control of the regents of the university.

#### STATION STAFF.

E. J. Wickson, M. A., *Dir., Hort.*  
 E. W. Hilgard, Ph. D., LL. D., *Chem.*  
 W. A. Setchell, Ph. D., *Bot.*  
 Elwood Mead,<sup>1</sup> C. E., D. E., *Irrig. Engin.*  
 Leroy Anderson, M. S. A., Ph. D., *Dairy Indus., Supt. of Univ. Farm School.*  
 M. E. Jaffa, M. S., *Nutr. Expert; in charge of Poultry Sta.*  
 C. W. Woodworth, M. S., *Ent.*  
 R. H. Loughridge, Ph. D., *Soil Chem., Soil Phys.*  
 C. B. Lipman, Ph. D., *Soil Bact., Chem.*  
 G. W. Shaw, Ph. D., *Tech. Agr.; in charge of Cereal Sta.*  
 G. E. Colby, M. S., *Chem., (Fruits, Waters, Insecticides); in charge of Chem. Lab.*  
 R. E. Smith, B. S., (*Whittier*), *Plant Path.; in charge of Southern California Path. Lab. and Expt. Sta.*  
 F. T. Bioletti, M. S., *Vit.*  
 E. W. Major,<sup>1</sup> B. Agr., (*Davis*), *Animal Indus.; Farm Mgr. Univ. Farm.*  
 H. M. Hall, Ph. D., *Asst. Bot.*  
 H. J. Quayle, A. B., (*Whittier*), *Asst. Ent.*  
 J. E. Coit, Ph. D., (*Whittier*), *Asst. Hort. in charge Citrus Invest.*  
 W. T. Clarke, B. S., *Asst. Hort.; Supt. Univ. Ext. in Agr.*  
 J. S. Burd, B. S., *Chem. in charge of Fert. Control.*  
 C. M. Haring, D. V. M., *Asst. Vet. and Bact.*  
 J. H. Norton, B. Agr., M. S., (*Whittier*), *Asst. Chem. in charge of Fert. Expts.*  
 W. B. Herms, B. S., M. A., *Asst. Ent.*  
 T. F. Hunt, B. S., *Asst. Hort.*  
 Elizabeth H. Smith, A. B., M. S., *Asst. Plant Path.*  
 C. O. Smith, M. S., (*Whittier*), *Asst. Plant Path.*  
 E. B. Babcock, B. S., *Asst. Agr. Ed.*  
 W. T. Horne, B. S., *Asst. Plant Path.*  
 R. E. Mansell,<sup>1</sup> *Asst. Hort.; in charge of Central Sta. Grounds.*

J. C. Bridwell, B. S., *Asst. Ent.*  
 E. H. Hagemann, (*Davis*), *Asst. in Dairying.*  
 A. J. Gaumnitz, M. S. A., (*Davis*), *Asst. in Cereal Invest.*  
 P. L. McCreary, B. S., *Asst. in Fert. Control Lab.*  
 F. E. Johnson, B. L., M. S., *Asst. in Soil Lab.*  
 Mattie E. Stover, B. S., *Asst. in Agr. Chem. Lab.*  
 C. H. McCharles, B. S., *Asst. in Agr. Chem. Lab.*  
 P. L. Hibbard, B. S., *Asst. in Fert. Control Lab.*  
 B. S. Brown, B. S., (*Davis*), *Asst. in Hort., Univ. Farm.*  
 Howard Phillips, B. S., (*Davis*), *Asst. in Animal Indus., Univ. Farm.*  
 L. M. Davis, B. S., (*Davis*), *Asst. in Dairy Husb., Univ. Farm.*  
 N. D. Ingham, (*Santa Monica*), *Asst. in Silviculture.*  
 L. Bonnet, *Asst. in Vit.*  
 S. S. Rogers, B. S., (*Whittier*), *Asst. in Plant Path.*  
 H. D. Young, B. S., (*Whittier*), *Asst. Chem.*  
 A. R. Tylor, B. S., (*Whittier*), *Asst. in Soils.*  
 E. W. Rust, A. B., (*Whittier*), *Asst. Ent.*  
 B. A. Madson, B. S., *Asst. in Cereal Lab.*  
 W. H. Volek, (*Watsonville*), *Field Asst. in Ent.*  
 E. L. Morris, B. S., (*San José*), *Field Asst. in Ent.*  
 F. C. H. Flossfeder, (*Davis*), *Asst. in Vit.*  
 E. E. Thomas, (*Whittier*), *Asst. Agr. Chem.*  
 W. V. Cruess, B. S., *Asst. Agron.*  
 L. T. Sharp, B. S., *Asst. in Soils.*  
 F. M. Hayes, D. V. M., *Asst. Vet.*  
 J. F. Mitchell, D. V. M., *Asst. Vet.*  
 C. L. Roadhouse, D. V. M., *Asst. Vet.*  
 A. B. Shaw, B. S., *Asst. Ent.*  
 G. P. Gray, M. S., *Asst. Chem.*  
 H. A. Ruehe, B. S., (*Davis*), *Asst. Dairy Husb.*  
 W. E. Packard, M. S., (*El Centro*), *in charge of Invest., Imperial Valley Substa.*  
 E. C. Miller, (*Chico*), *Foreman For. Sta.*

#### COLORADO.

The State Agricultural College of Colorado, Fort Collins.

#### GOVERNING BOARD.

The State board of agriculture: A. A. Edwards\* (*Pres.*), *Fort Collins*; J. L. Brush\* (*V. Pres.*), *Greeley*; L. M. Taylor (*Sec.*), *Fort Collins*; Chas. H. Sheldon (*Treas.*), *Fort Collins*; R. W. Corwin, *Pueblo*; F. E. Brooks, *Colorado Springs*; E. M. Ammons\*, *Littleton*; J. C. Bell, *Montrose*; T. J. Ehrhart, *Centerville*; Charles Pearson, *Durango*; Gov. John F. Shafroth (*ex officio*), *Denver*; Chas. A. Lory, (*ex officio*), *Fort Collins*.

<sup>1</sup> On leave.

COURSES OF STUDY.

There are 10 four-year courses, viz: Agronomy, animal husbandry, entomology, forestry, horticulture, civil and irrigation engineering, electrical engineering, mechanical engineering, home economics, and general science (B. S.); post-graduate courses; a three-year course in veterinary science (D. V. S.); three-year courses of six months each in agriculture, mechanic arts, and domestic science, to which may be added a fourth year of six months for college entrance; and a farmers' and housekeepers' week held in January.

BOARD OF INSTRUCTION.

Charles A. Lory, M. S., LL.D., *President.*

James W. Lawrence, M. E., <i>Dean of Faculty; Mech. Engin.</i>	Ralph Parshall, B. S., ( <i>Asst.</i> ) <i>Civil and Irrig. Engin.</i>
Clarence P. Gillette, M. S., <i>Zool., Ent.</i>	Fred G. Person, B. A., ( <i>Asst.</i> ) <i>Elect. Engin.</i>
William P. Headden, Ph. D., <i>Chem. Geol.</i>	Carey E. Vail, B. S., M. A., ( <i>Asst.</i> ) <i>Chem.</i>
Edward B. House, M. S., B. S. in E. E., <i>Civil and Irrig. Engin.</i>	W. L. Burnett, <i>Curator of Museum.</i>
Virginia H. Corbett, B. L., M. Ph., <i>Dean of Women; (Assoc.) Hist., Lit.</i>	Zula M. Brockett, B. S., <i>Instr. Engl.</i>
Geo. H. Glover, M. S., D. V. M., <i>Vet. Sci.</i>	J. B. Crabbe, B. A., <i>Instr. Engl.</i>
William R. Thomas, M. A., Litt. D., <i>Constitutional Hist. and Irrig. Law.</i>	Margaret Durward, Ph. B., <i>Instr. Math.</i>
C. H. Hinman, B. S., <i>Supt. Farmers' Insts.; Ext. Work.</i>	Albert B. Cammack, M. E., <i>Instr. Mech. Engin.</i>
Benj. F. Coen, B. L., <i>Engl.</i>	Fred N. Langridge, M. E., <i>Instr. Mech. Engin.</i>
S. L. Macdonald, B. S., <i>Math.</i>	F. J. Rankin, M. E., <i>Instr. Phys., Elect. Engin.</i>
Geo. L. Scott, Major, U. S. A. (Retired), <i>Mil. Sci. and Tactics.</i>	D. W. Frear, B. S., <i>Instr. Agron.</i>
George E. Morton, M. L., B. S. A., <i>Animal Husb.</i>	James D. Marshall, B. S., <i>Instr. Agron.</i>
Burton O. Longyear, B. S., <i>Bot., For.</i>	Miriam A. Palmer, A. M., <i>Instr. Free-hand Draw.</i>
S. Arthur Johnson, M. S., ( <i>Assoc.</i> ) <i>Ent., Zool.</i>	Julius Erdman, <i>Instr. Flor.; Gard.</i>
Mary F. Rausch, <sup>1</sup> B. S., <i>Home Econ.</i>	S. Van Smith, B. S., <i>Instr. Hort.</i>
Isaac E. Newsom, B. S., D. V. S., <i>Vet. Sci.</i>	W. W. Robbins, B. S., <i>Instr. Bot., For.</i>
Clarence L. Barnes, D. V. M., <i>Vet. Sci., Surgery.</i>	G. A. Gilbert, B. S., <i>Instr. Animal Husb.</i>
B. F. Kaupp, M. S., D. V. S., <i>Vet. Sci., Path.</i>	J. B. McNulty, B. S., <i>Instr. Animal Husb.</i>
Sarah I. Kettle, A. B., <i>Mod. Lang.</i>	W. E. Vaplon, <i>Instr. Animal Husb.</i>
Alvin Keyser, B. S., M. A., <i>Agron.</i>	Charlotte E. Carpenter, <i>Instr. Home Econ.</i>
H. E. Kingman, B. S., D. V. S., <i>Vet. Med.</i>	Margaret H. Haggart, B. S., <i>Instr. Home Econ.</i>
L. M. Taylor, <i>Sec. of Faculty.</i>	Annie L. Robinson, B. S., <i>Instr. Home Econ.</i>
E. R. Bennett, B. S., M. H., <i>Hort., For.</i>	Hiram Pierce, <i>Instr. Carpentry.</i>
T. M. Netherton, A. M., <i>Prin. School of Agr.</i>	F. H. Rosecrants, B. S., <i>Instr. Farm. Mech.</i>
Inga M. K. Allison, E. B., <i>Home Econ.</i>	S. I. Ross, B. S., <i>Instr. Forge and Foundry Pract.</i>
F. A. DeLay, B. S. in E. E., <i>Phys., Elect. Engin.</i>	H. W. Hughes, <i>Phys. Dir.</i>
Charlotte A. Baker, <i>Libr.</i>	Anna E. Elwell, B. A., <i>Asst. in Phys.</i>
	Raymond Hertwig, B. S., <i>Asst. in Chem.</i>
	Mrs. Agnes Upson, <i>Asst. in Phys. Culture for Women.</i>
	W. E. Runge, B. S., <i>Dir. of Band.</i>
	E. Arlene Dilts, <i>Libr. Asst.</i>
	Ida Walker, <i>Libr. Asst.</i>

Agricultural Experiment Station, Fort Collins.

Department of the State Agricultural College of Colorado, under the control of the State board of agriculture.

STATION STAFF.

C. P. Gillette, M. S., <i>Dir.; Ent.</i>	Earl Douglass, M. S., <i>Asst. Chem.</i>
W. P. Headden, Ph. D., <i>Chem.</i>	S. Arthur Johnson, M. S., <i>Asst. Ent.</i>
G. H. Glover, M. S., D. V. M., <i>Vet.</i>	B. F. Kaupp, M. S., D. V. S., <i>Path.</i>
Alvin Keyser, B. S., M. A., <i>Agron.</i>	Miriam A. Palmer, M. A., <i>Delineator.</i>
W. G. Sackett, B. S., <i>Bact.</i>	L. C. Bragg, <i>Asst. in Ent.</i>
J. O. Williams, <sup>1</sup> B. S. A., <i>Horse Breeding.</i>	R. S. Herriek, B. S. ( <i>Grand Junction</i> ), <i>Field Hort.</i>
E. R. Bennett, B. S., M. H., <i>Hort.</i>	C. L. Fitch, <i>Potato Invest.</i>
E. B. House, M. S., B. S. in E. E., <i>Irrig. Engin.</i>	W. E. Vaplon, <i>Poultry Invest.</i>
V. M. Cone, <sup>2</sup> B. S. in E., <i>Irrig. Invest.</i>	J. W. Adams, B. S., <i>Asst. Agron., Dry Land Invest., Cheyenne Wells.</i>
B. O. Longyear, B. S., <i>Bot., For.</i>	James Hutton, <sup>1</sup> <i>Asst. in Horse Breeding</i>
G. E. Morton, M. L., B. S. A., <i>Animal Husb.</i>	G. D. Walters, <sup>1</sup> B. S., <i>Asst. Irrig. Invest.</i>
R. E. Trimble, B. S., <i>Asst. Irrig. Engin.</i>	S. Van Smith, B. S., <i>Asst. Hort.</i>
P. K. Blinn, B. S., <i>Alfalfa Specialist, Arkansas Valley Substa., Rockyford.</i>	Elwood D. Rood, A. B., <i>Asst. Chem.</i>

<sup>1</sup> On leave.

<sup>2</sup> In cooperation with the U. S. Department of Agriculture.



## CONNECTICUT.

## The Connecticut Agricultural Experiment Station, New Haven.

## GOVERNING BOARD.

State board of control: Gov. Simeon E. Baldwin (*ex officio Pres.*), *State Capitol, Hartford*; H. W. Conn (*V. Pres.*), *Middletown*; G. A. Hopson (*Sec.*), *Wallingford*; F. H. Stadtmueller, *Elmwood*; E. H. Jenkins (*Treas.*), *New Haven*; J. H. Webb, *Hamden*; J. W. Alsop, *Avon*; Wilson H. Lee, *Orange*.

## STATION STAFF.

Edward H. Jenkins, Ph. D., *Dir.*  
T. B. Osborne, Ph. D., D. Sc., *Chief Research Chem.*  
John P. Street, M. S., *Chief Anal. Chem.*  
E. Monroe Bailey, Ph. D., *1st Asst. Chem.*  
Clifford B. Morrison, B. S., *Asst. Chem.*  
Clarence E. Shepard, *Asst. Chem.*  
Ralph B. Roe, A. B., *Asst. Chem.*  
Miss E. L. Ferry, A. B., *Asst. Research Chem.*  
Wilton E. Britton, Ph. D., *Ent.*; *State Ent.*  
Donald J. Caffrey, B. S. (*Wallingford*), *Asst. Ent.*,  
*Gipsy Moth Invest.*

B. H. Walden, B. Agr., *Asst. Ent.*  
George P. Clinton, S. D., *Bot.*  
E. M. Stoddard, B. S., *Asst. Bot.*  
Miss E. B. Whittlesey, *Herbarium Asst.*  
Miss M. H. Jagger, *Seed Testing.*  
Samuel N. Spring, A. B., M. F., *in charge of Forest Work and State For.*  
Walter O. Filley, *Asst. State For.*  
Herbert K. Hayes, B. S., *Plant Breeding.*  
Miss V. E. Cole, *Libr.*

The Connecticut Agricultural College, Storrs.<sup>1</sup>

## GOVERNING BOARD.

Board of trustees: Gov. Simeon E. Baldwin (*ex officio Pres.*), *Hartford*; E. H. Jenkins\* (*ex officio*), *New Haven*; G. A. Hopson, *Wallingford*; E. S. Henry, *Rockville*; D. W. Patten\* (*Treas.*), *Clintonville*; C. A. Capen\* (*Sec.*), *Willimantic*; A. J. Pierpont, *Waterbury*; L. J. Storrs,\* *Mansfield Center*; H. G. Manchester\* (*V. Pres.*), *Winsted*; C. M. Jarvis, *Berlin*; J. W. Alsop, *Avon*.

## COURSES OF STUDY.

Four-year course in agriculture (diploma upon graduation), open to students who have completed two years of high school work; four-year course in agriculture for high school graduates, leading to the B. S. degree. There is a two-year school of mechanic arts (the entrance requirement being two years of high school work), and two-year schools of agriculture and home economics, open to those who have a common school education.

There is a summer school of about four weeks, for teachers and others, in nature study and agriculture; two six weeks' winter courses in dairying and pomology, and a six weeks' poultry course.

## BOARD OF INSTRUCTION.

Charles L. Beach, B. Agr., B. S., *President.*

Alfred G. Gulley, M. S., *Hort.*  
Chas. A. Wheeler, M. A., *Math.*  
Henry R. Monteith, A. B., *Hist., Engl., French.*  
Edwina M. Whitney, Ph. B., *Instr. German; Libr.*  
Edwin O. Smith, B. S., *Engl., Econ.; Sec. of Faculty.*  
Harry L. Garrigus, B. Agr., *Instr. Animal Husb.; Farm Supt.*  
Louis A. Clinton, M. S., *Agron.*  
Frederic H. Stoneburn, *Poultry Husb.*  
George H. Lamson, jr., B. Agr., M. S., *Zool., Geol.*  
John N. Fitts, B. Agr., (*Assoc.*) *Mech. Arts.*  
Wm. M. Esten, M. S., *Bact.*  
John M. Trueman, B. S. A., *Dairy Husb.*  
Albert F. Blakeslee, Ph. D., *Bot.*

Alva T. Stevens, M. S., *Instr. Hort.*  
Howard D. Newton, Ph. D., (*Assoc.*) *Chem., Phys.*  
Edward B. Fitts, *Instr. Dairying.*  
James M. Churchill, Lieut., U. S. A., *Mil. Sci.; Comdt.*  
Maud E. Hayes, *Dom. Sci.*  
Mary C. Rogers, *Instr. Engl., Elocution.*  
Lillian E. Berry, *Instr. Music.*  
Sherman P. Hollister, *Instr. Hort.*  
Burt K. Dow, V. S., *Lect. in Vet. Sci.*  
Samuel N. Spring, A. B., M. F., *Lect. in For.*  
Chester D. Jarvis, Ph. D., *in charge of Orchard Demonstration.*  
Herbert K. Job, A. B., *Lect. in Ornith.; State Ornith.*  
Elizabeth Donovan, *Asst. in Home Econ.*

Storrs Agricultural Experiment Station, Storrs.<sup>1</sup>

Department of the Connecticut Agricultural College, under the control of the board of trustees.

## STATION STAFF.

L. A. Clinton, M. S., *Dir., Agron.*  
J. M. Trueman, B. S. A., *Dairy Husb.*  
F. H. Stoneburn, *Poultryman.*  
Wm. M. Esten, M. S., *Bact.*  
C. D. Jarvis, Ph. D., *Hort.*  
Geo. H. Lamson, jr., B. Agr., M. S., *Ent., Econ. Zool.*

L. F. Rettger, Ph. D., *Bact. (Poultry Diseases).*  
H. D. Edmond, B. S., *Chem.*  
Chas. Thom,<sup>2</sup> Ph. D., *Cheese Expert, Myc.*  
Christie J. Mason, B. Agr., *Asst. Bact.*  
E. B. Fitts, *Asst. Dairy Husb.*  
J. N. Currie,<sup>2</sup> Ph. D., *Chem. (Cheese Invest.)*  
Kenneth J. Matheson,<sup>2</sup> B. S., *Cheese Maker.*

<sup>1</sup> Telegraph address, *Storrs* via *Willimantic*; railroad station, express, and freight address, *Eagleville*.

<sup>2</sup> In the service of the U. S. Department of Agriculture.



## DELAWARE.

## Delaware College, Newark.

## GOVERNING BOARD.

Board of trustees: Preston Lea (*Pres.*), *Wilmington*; J. C. Stockly\* (*V. Pres.*), *Smyrna*; C. B. Evans (*Sec. and Treas.*), *Newark*; Gov. S. S. Pennewill (*ex officio*), *Dover*; G. A. Harter\* (*ex officio*), *Newark*; H. G. M. Kollock, *Newark*; J. C. Higgins, *Delaware City*; G. W. Marshall, *Milford*; J. H. Whiteman, *Wilmington*; W. T. Lynam, *Wilmington*; D. W. Corbit\* *Odessa*; L. H. Ball, *Marshallton*; L. P. Bush, *Wilmington*; C. S. Conwell, *Camden*; Geo. G. Kerr\* *Newark*; J. E. Dutton, *Seaford*; E. R. Paynter, *Georgetown*; W. H. Stevens, *Seaford*; John Biggs, *Wilmington*; W. Watson Harrington, *Dover*; Lewis W. Mustard, *Lewes*; S. H. Messick\* *Bridgeville*; S. H. Derby\* *Woodside*; Thomas Davis, *Wilmington*; J. H. Hossinger, *Newark*; G. A. Blake, *Elkton, Md.*; S. J. Wright, *Newark*; John Hunn, *Wyoming*; Henry Ridgely, *Dover*; Charles M. Curtis, *Wilmington*.

## COURSES OF STUDY.

There are seven regular four-year courses, viz: Classical and Latin scientific (B. A.), agricultural (B. S. in Agr.), and general science (B. S.), and three engineering courses (B. S. in civil, mechanical, or electrical engineering); a two-year course, an eight weeks' course, and a farmers' one-week winter course in agriculture are also offered.

## BOARD OF INSTRUCTION.

Geo. A. Harter, M. A., Ph. D., *President*; *Mathematics and Physics*.

Francis B. Eastman, Lieut., U. S. A., *Mil. Sci. and Tactics*; *Comdt.*

Harry Hayward, M. S. Agr., *Animal Husb.*; *Dean Dept. Agr.*

W. Owen Sypherd, Ph. D., *Engl.*

Clarence A. Short, M. S., *Math., Engin.*

Chas. A. McCue, B. S., *Hort.*

Raymond C. Reed, Ph. B., D. V. S., *Vet. Sci., Bact.*

Arthur E. Grantham, B. A., B. S. A., *Agron.*

Charles L. Penny, M. A., *Agr. Chem., Geol., Min.*

Clinton O. Houghton, B. A., *Zool., Bot.*

Harold E. Tiffany, M. S., (*Asst.*) *Chem.*

Joseph M. McVey, B. A., *Instr. Math., Engin.*

George E. Dutton, M. A., *Instr. Engl.*

W. C. Pelton, B. S., *Asst. in Hort.*

M. O. Pence, B. S., *Asst. in Agron.*

## The Delaware College Agricultural Experiment Station, Newark.

Department of Delaware College, under the control of the board of trustees.

## STATION STAFF.

Harry Hayward, M. S. Agr., *Dir.*

C. A. McCue, B. S., *Hort.*

A. E. Grantham, B. A., B. S. A., *Agron.*

Firman Thompson, B. S., *Chem.*

R. C. Reed, Ph. B., D. V. S., *Vet., Animal Path.*

H. H. Morgan, Jr., *Asst. Chem.*

A. C. Whittier, B. S., *Asst. Chem.*

Jacob J. Taubenhaus, M. S. A., *Asst. Plant Path.*

W. C. Pelton, B. S., *Asst. Hort.*

M. O. Pence, B. S., *Asst. Agron.*

William Telfer, *Farm Foreman.*

M. S. Gessner, *Foreman Hort. Dept.*

Lottie W. Baker, *Sec.*

## State College for Colored Students, Dover.

## GOVERNING BOARD.

Board of trustees: Henry P. Cannon (*Pres.*), *Bridgeville*; Geo. W. Marshall (*Sec. Treas.*), *Milford*; Ebe W. Tunnell, *Lewes*; Francis H. Hoffecker, *Wilmington*; John B. Hutton, *Dover*; Edward R. Hart, *Townsend*; William C. Jason (*ex officio*), *Dover*.

## COURSES OF STUDY.

The following four-year courses, leading to the degrees of B. S., B. Agr., and B. E., respectively, are offered: Scientific, agricultural, and engineering. There are also a four-year normal course, and industrial courses of two years each in woodworking, iron working, blacksmithing, masonry, printing, cooking, sewing, and dressmaking.

## BOARD OF INSTRUCTION.

Rev. William C. Jason, A. M., D. D., *President*; *Latin, Political Economy, Elocution.*

Samuel L. Conwell, A. M., *Ancient and Mod. Hist.*; *Sec.*

Lydia P. Laws, *Engl. Lit., U. S. Hist., Dom. Sci.*

F. T. F. Buckner, *Arith., Mil. Tactics, Mach. Work*; *Comdt.*

Cecie E. Parker, B. S., *Grammar, Engl. Composition, Print., Libr.*

William M. Berry, A. M., *Supt. Agr. Dept.; Psych., Civics, Bot., Agron.*

Clarence E. Anderson, *Coml. Geog., Ele. Engl., Carpentry.*

John H. Greene, M. S., *Supt. Indus. Dept.; Geom., Mech. Draw., Engin.*

Wm. W. M. Henry, M. D., *Chem., Physiol. and Hyg., Phys.*

G. Winfield Deputy, *Supt. Grounds and Buildings; Instr. Manual Training.*

## FLORIDA.

College of Agriculture of the University of Florida, Gainesville.

## GOVERNING BOARD.

Board of control: P. K. Yonge\* (*Chair.*), *Pensacola*; T. B. King,\* *Arcadia*; E. L. Wartmann,\* *Citra*; F. P. Fleming, jr.\* *Jacksonville*; W. D. Finlayson,\* *Old Town*; J. G. Kellum (*Sec.*), *Tallahassee*.

## COURSES OF STUDY.

The university is divided into four colleges, as follows: Arts and sciences, agriculture, engineering, and law.

The college of agriculture offers a four-year course leading to the degree of B. S. in Agr., a two-year course, a one-year special course, two four months' short courses for farmers, a four weeks' farmers' course, and correspondence courses in agriculture for home study. A year's postgraduate work in agriculture is also offered.

## BOARD OF INSTRUCTION.

Albert A. Murphree, A. M., LL. D., *President of the University*.

John J. Vernon, B. Agr., M. S. A., *Dean College of Agr.; Agron.*

W. L. Floyd, M. S., *Hort., Bot.*

R. D. Maltby, B. S., *Animal Husb., Dairying.*

E. H. Pinckney, B. S., *Instr. Soils and Ferts.*

James M. Farr, Ph. D., *Engl.*

Edward R. Flint, Ph. D., M. D., *Chem.*

C. L. Crow, Ph. D., *Mod. Lang.*

James N. Anderson, Ph. D., *Ancient Lang.*

Luther L. Benard, Ph. D., *Hist., Econ.*

H. S. Davis, Ph. D., *Geol., Zool., Bact.*

H. G. Keppel, Ph. D., *Math., Astron.*

M. B. Hadley, A. B., *Instr. Math.; Libr.*

E. S. Walker, Major, U. S. A. (Retired), *Mil. Sci.*

N. H. Cox,<sup>1</sup> B. S., *Civil Engin.*

W. L. Seeley, (*Actg.*) *Civil Engin.*

John A. Thackston, Ph. D., *Head Dept. Ed.; Secondary Ed.; Insp. of High Schools.*

Harvey W. Cox, Ph. D., *Philos., Ed.*

K. H. Graham, *Auditor, Bookkeeper.*

G. E. Pile, *Phys. Dir.*

## Agricultural Experiment Station of Florida, Gainesville.

Department of the University of the State of Florida, under the control of the board of control.

## STATION STAFF.

P. H. Rolfs, M. S., *Dir.; in charge of Ext. Work.*

John M. Scott, B. S., *A sst. Dir.; Animal Indus.*

H. S. Fawcett, M. S., *Plant Path.*

B. F. Floyd, A. M., *Plant Physiol.*

J. R. Watson, B. S., A. M., *Ent.*

Stanley E. Collison, M. S., *Assoc. Chem.*

John Belling, B. S., *A sst. Bot.; Editor.*

John Schnabel, *A sst. Hort.*

Owen F. Burger, A. B., M. S., *A sst. Plant Path.*

U. C. Loftin, B. S., *Lab. A sst.*

J. B. Griffith, B. S., *Lab. A sst.*

F. M. O'Byrne, A. B., *Lab. A sst.*

A. P. Spencer, M. S., *A sst. in Ext. Work.*

C. K. McQuarrie, *A sst. Supt. Farmers' Insts.*

M. Crews, *Farm Foreman.*

K. H. Graham, *Auditor, Bookkeeper.*

W. Voorhees, *Libr.*

## Florida Agricultural and Mechanical College for Negroes, Tallahassee.

## GOVERNING BOARD.

State board of education: Gov. Albert W. Gilchrist (*Pres.*), *Tallahassee*; W. M. Holloway (*Sec.*), *Tallahassee*; H. C. Crawford, *Tallahassee*; W. V. Knott (*Treas.*), *Tallahassee*; P. W. Trammell, *Tallahassee*.

Board of control: P. K. Yonge (*Chair.*), *Pensacola*; F. P. Fleming, jr., *Jacksonville*; E. L. Wartmann, *Citra*; T. B. King, *Arcadia*; W. D. Finlayson, *Old Town*; J. G. Kellum (*Sec.*), *Tallahassee*.

## COURSES OF STUDY.

The courses of study are: Four-year scientific (B. S.), English-normal (two years), high school and grammar school (three years each), with industrial and agricultural training through all courses. A correspondence course in agriculture and laboratory courses in general agriculture are also offered.

<sup>1</sup> On leave.

## BOARD OF INSTRUCTION.

Nathan B. Young, M. A., *President; Philosophy, Economics.*

J. C. Wright, A. B., *Sec.; Dir. Acad. Dept.; Lat., Engl.*  
 Everett B. Jones, B. S., *Chem. Biol.*  
 F. H. Cardozo, *Dir. Agr. Dept.; Agr. Sci., Hort.*  
 Evalina A. Davis, *Instr. Cooking.*  
 W. A. Armwood, *Instr. Carpentry, Mech. Draw.*  
 W. H. Crutcher, *Farm Supt.; Instr. Truck Gard., Farm Crops.*  
 D. A. Sparks, *Instr. Agr., Animal Husb.*  
 Miss J. V. Hilyer, *Instr. Nurse Training; Physiol.; Matron.*  
 Daisy E. Attaway, *Instr. Engl.*  
 Mary E. Melvin, *Dean of Women; Hist., Arith.*  
 Olive L. Harrison, *Instr. Engl., Sew.*  
 Ellen O. Paige, *Instr. Dressmaking.*  
 Eliza J. Powell, *Instr. Engl.*  
 Lulu M. Cropper, *Instr. Engl., Pedag.; Registrar, Libr.*

E. Edna Jenkins, *Instr. Engl., Millinery.*  
 Andrew D. Martin, *Print.*  
 James N. English, A. B., Ph. B., (*Asst.*) *Econ., Phys.*  
 Jessie V. Stephens, A. B., *Instr. Engl.*  
 Estella Johnson, *Instr. Typew. and Sten.; Sec. to Pres.*  
 F. C. Johnson, B. S., *Dir. Dept. Mech. and Dom. Arts; Phys., Math.; Auditor.*  
 A. E. Martin, *Instr. Tailoring.*  
 W. H. A. Howard, M. A., *Comdt., (Asst.) Math. Instr. Painting.*  
 Rufus J. Hawkins, A. B., *Asst. Comdt.; Instr. Engl., Arith.*  
 Beatrice M. Hudson, *Music.*  
 T. S. Johnson, *Instr. Wheelwr., Blacksm.*  
 Edwin F. Kenswill, *Manual Training, Freehand Draw.*

## GEORGIA.

Georgia State College of Agriculture, University of Georgia, Athens.

Trustees: J. J. Conner (*Pres.*), *Cartersville*; J. W. Bennett, *Waycross*; J. T. Newton, *Madison*; D. M. Hughes, *Danville*; L. G. Hardman,\* *Commerce*; T. G. Hudson,\* *Atlanta*; R. C. Neely,\* *Waynesboro*; J. L. Hand, *Pelham*; George Gilmore, *Warthen*; A. J. McMullan, *Hartwell*; J. A. Thrash, *Greenville*; T. W. Reed (*Sec. and Treas.*), *Athens*; A. M. Soule (*Asst. Sec.*), *Athens*.

## COURSES OF STUDY.

Four courses in agriculture are offered, viz, a four-year course leading to the degree of B. S., one-year course, three months' course, and a ten days' (winter) cotton school; a four-year forest engineering course leads to the degree of B. S. F.; summer short courses in cotton grading and agriculture, and a stockmens' short course are also offered.

## BOARD OF INSTRUCTION.

David C. Barrow, C. and M. E., *Chancellor of the University.*

Andrew M. Soule, B. S. A., D. Sc., *Pres. of the College; Dir. State Farmers' Insts.*  
 H. C. White, Ph. D., D. C. L., LL. D., *Chem*  
 L. L. Hendren, Ph. D., *Phys., Astron.*  
 John Morris, A. M., *German, Engl.*  
 Robt. E. Park, jr., A. M., Litt. D., *Rhet., Engl. Lit.*  
 Chas. M. Strahan, C. and M. E., *Civil Engin.*  
 J. H. T. McPherson, Ph. D., *Hist., Polit. Sci.*  
 Chas. M. Snelling, A. M., *Math.*  
 John R. Fain, B. S., *Agron.*  
 J. M. Reade, Ph. D., *Bot.*  
 Thos. H. McHatton, D. Sc., *Hort.*  
 Alfred Akerman, A. B., M. F., *For.*  
 Milton P. Jarnagin, B. S. A., *Animal Husb.*  
 William M. Burson, D. V. M., *Vet. Med.*  
 R. P. Stephens, Ph. D., (*Asso.*) *Math.*  
 H. V. Black, Ph. D., (*Asso.*) *Chem.*  
 W. A. Worsham, Jr., B. S., A. M., (*Asso.*) *Agr. Chem.*  
 Wm. O. Payne, Ph. D., (*Asso.*) *Hist., Polit. Sci.*  
 Steadman V. Sanford, A. B., (*Junior*) *Rhet., Engl. Lit.*

R. J. H. De Loach, A. M., *Cotton Industry.*  
 Leroy C. Hart, B. S., E. E., (*Adjunct*) *Farm Mech.*  
 L. M. Carter, B. S., (*Adjunct*) *Soil Chem.*  
 J. S. Stewart, A. M., *Secondary Ed.*  
 Joseph Lustrat, B. ès Lett., *Romance Lang.*  
 Thos. J. Woolfer, Ph. D., *Philos., Ed.*  
 R. P. Brooks, B. A., (*Adjunct*) *Georgia Hist. and Sociol.*  
 M. D. Du Bose, A. M., (*Adjunct*) *Engl., German.*  
 D. D. Long, (*Adjunct*) *Soil Survey.*  
 R. S. Pond, A. B., *Instr. Math.*  
 S. M. Salyer, A. B., *Instr. Rhet., Engl. Lit.*  
 E. T. Miller, B. S., C. E., *Instr. Phys.*  
 R. S. Hollingshead, A. B., *Instr. Soil Chem.*  
 Henry W. Moore, B. S. A., *Asst. in Dairy Husb.*  
 P. O. Vanatter, *Supt. Field Demonstrations.*  
 Louise Smith, *Libr.*  
 J. A. Atkins, Lieut. U. S. A., *Comdt.*  
 T. W. Reed B. L., A. M., *Registrar.*  
 E. L. Worsham, B. S., (*Atlanta*), *Spec. Lect. on Ent.*  
 B. A. Crane, B. S., *Spec. Lect. on Cotton Grading.*

## Agricultural Extension.

J. Ph. Campbell, <sup>1</sup> *Schools.*  
 Guy W. Firor, M. S., *Sec.*  
 J. W. Hart, <sup>1</sup> *Dairying.*  
 L. E. Rast, B. S. A., *Instr. Agron.*

John L. Bishop, B. S. A., M. S., (*Adjunct*) *Animal Husb.*  
 J. W. Firor, B. S., *Instr. Hort.*  
 Mary E. Creswell, *Asst. in School Ext.*

<sup>1</sup> In cooperation with the U. S. Department of Agriculture.

**Georgia Experiment Station, Experiment.<sup>1</sup>**

Department of Georgia State College of Agriculture and Mechanic Arts at Athens.

**GOVERNING BOARD.**

Board of directors: Thomas G. Hudson (*Pres. ex officio*), *Atlanta*; David C. Barrow (*ex officio*), *Athens*; A. M. Soule (*ex officio*), *Athens*; R. C. Neely, *Waynesboro*; R. F. Crittenden, *Shellman*; J. T. Ferguson, *De Soto*; J. H. Mobley, *Hamilton*; E. L. Peek, *Conyers*; N. B. Drewry, *Griffin*; Felix Corput, *Cave Spring*; L. G. Hardman, *Commerce*; William Henderson, *Ocala*; J. D. Price, *Farmington*; M. G. Gamble, *Louisville*.

**STATION STAFF.**

Martin V. Calvin, <i>Dir.</i>	H. P. Stuckey, B. S. A., <i>Hort.</i>
J. M. Kimbrough, <i>A sst. Dir., Agr.</i>	J. C. Temple, B. Agr., M. S., <i>Bact.</i>
H. C. White, Ph. D., D. C. L., LL. D., ( <i>Athens</i> ), V. <i>Dir., Chem.</i>	E. L. Worsham, B. S., ( <i>Atlanta</i> ), <i>Ent.</i>
C. A. McLendon, B. S., <i>Bot., Plant Path.</i>	H. P. Lykes, B. S., <i>Animal Husb., Dairyman.</i>

**Georgia State Industrial College for Colored Youths, University of Georgia, Savannah.**

**GOVERNING BOARD.**

Board of commissioners: P. W. Meldrim (*Chair.*), *Savannah*; W. R. Hammond, *Atlanta*; P. J. Clines, *Milledgeville*; Otis Ashmore, *Savannah*; M. V. Calvin, *Experiment*; D. C. Barrow (*Chancellor Univ. of Georgia, ex officio*), *Athens*; J. F. Brooks (*Treas.*), *Savannah*.

**COURSES OF STUDY.**

The courses offered are industrial, preparatory, normal, and collegiate (A. B.). Practical agriculture is made one of the industrial features of the college courses. A special one-year dairy course is offered.

**BOARD OF INSTRUCTION.**

David C. Barrow, C. and M. E., *Chancellor of the University.*

R. R. Wright, A. M., LL. D., <i>Pres. of the College</i> ; <i>Instr. Engl. and Mental and Moral Sci.</i>	J. M. Roston, <i>Wheelwr.; Proctor.</i>
D. C. Suggs, Ph. D., V. <i>Pres.; Instr. Nat. Sci.</i>	Mrs. W. C. McLester, <i>Sew., Dressmaking.</i>
J. G. Lemon, A. M., <i>Instr. Math.</i>	J. H. Hazel, <i>Painting, Glazing, Sign Writing, Cal-</i> <i>cimining.</i>
S. A. Grant, A. B., <i>Instr. Engl. Pedag.; Registrar.</i>	R. M. Cooper, <i>Tailoring.</i>
Henry Pearson, A. M., <i>Asst. Instr. Engl.; Sec. of</i> <i>Faculty.</i>	Mrs. D. E. Pearson, <i>Prin. of Model School.</i>
L. B. Thompson, A. B., <i>Supt. Mech. Dept.; Asst.</i> <i>Instr. Math., Masonry, Plastering.</i>	Maria Jackson, <i>Matron.</i>
J. S. Frazier, <i>Instr. Dairying.</i>	G. A. Holloway, <i>Show and Harness Making.</i>
	J. W. Warren, <i>Blacksm.</i>
	E. M. Wilson, <i>Carpentry, Mech. Draw.</i>

**GUAM.****Guam Agricultural Experiment Station.<sup>2</sup>**

Under the supervision of A. C. True, Director Office of Experiment Stations, United States Department of Agriculture.

**STATION STAFF.**

John B. Thompson, B. S., *Special Agent in Charge.*  
Peter Nelson, *Assistant*

**HAWAII.**

**College of Hawaii, Honolulu.**

**GOVERNING BOARD.**

H. E. Cooper (*Pres.*), A. Gartley (*Sec.*), Ralph S. Hosmer (*V. Pres.*), C. Montague Cooke, Charles R. Hemmenway.

**COURSES OF STUDY.**

The college offers four courses leading to the degree of B. S., as follows: Scientific, agricultural, household economics, and engineering. In addition, courses for special students and correspondence courses are provided.

<sup>1</sup> Telegraph, freight, and express address, *Griffin*.

<sup>2</sup> Address: *Island of Guam, via San Francisco.*



## BOARD OF INSTRUCTION.

John W. Gilmore, M. S. A., *President; Agriculture.*

J. S. Donaghho, B. A., *Math.*  
 John M. Young, M. M. E., *Mech. Engin.*  
 A. R. Keller, C. E., *Civil Engin.*  
 F. T. Dillingham, S. B., *Chem.*  
 Frederick G. Krauss, B. S., *Agron.*  
 Joseph F. Rock, B. S., *Bot.*  
 Henry H. Severin, Ph. D., *Ent.*  
 Wm. A. Bryan, B. S., *Zool.*

Arthur L. Andrews, Ph. D., *Engl.*  
 Minnie E. Chipman, *Ceramics.*  
 Mildred M. Yoder, Ph. B., *Hist., Econ.*  
 Vaughan MacCaughy, B. S. A., *Bot., Hort.*  
 Howard M. Ballou, A. B., *Phys.*  
 Willibald Felmy, *German.*  
 Pierre Ceresole, Ph. D., *French.*  
 Florence M. Lee, B. S., *Dom. Econ.*

**Hawaii Agricultural Experiment Station, Honolulu.**

Under the supervision of A. C. True, Director Office of Experiment Stations, United States Department of Agriculture.

## STATION STAFF.

E. V. Wilcox, Ph. D., *Special Agent in Charge.*  
 J. Edgar Higgins, B. A., M. S. A., *Hort.*  
 W. P. Kelley, M. S., *Chem.*  
 C. K. McClelland, M. S. A., *Agron.*  
 D. T. Fullaway, M. A., *Ent.*

William McGeorge, B. S., *Asst. Chem.*  
 Alice R. Thompson, B. S., *Asst. Chem.*  
 C. J. Hunn, B. S. A., *Asst. Hort.*  
 Valentine S. Holt, *Asst. in Hort.*  
 C. A. Sahr, *Asst. in Agron.*

**Hawaiian Sugar Planters' Experiment Station, Honolulu.**

## GOVERNING BOARD.

Trustees of the Hawaiian Sugar Planters' Association: E. D. Tenney (*Pres.*), F. M. Swanzy (*V. Pres.*), W. O. Smith (*Sec.-Treas.*), L. J. Warren (*Asst. Sec.-Treas.*), Geo. H. Robertson (*Auditor*), F. A. Schaefer, J. P. Cooke, A. W. T. Bottomley, E. F. Bishop, J. M. Dowsett, W. Pfotenhauer.

Experiment station committee: E. E. Paxton (*Chair.*), J. W. Waldron, J. M. Dowsett, A. W. T. Bottomley, A. Gartley, L. J. Warren (*Sec.*).

## STATION STAFF.

C. F. Eckart, M. S., *Dir.*  
 R. C. L. Perkins,<sup>1</sup> M. A., Sc. D., *Ent.*  
 Noel Deerr, A. C. G. I., *Sugar Technologist.*  
 Samuel S. Peck, B. S., Ph. G., *Chem.*  
 Harold L. Lyon, Ph. D., *Bot., Plant Path.*  
 H. P. Agee, B. S., *Agr.*  
 Otto H. Swezey, B. A., M. S., *Actg. Ent.*  
 Robt. S. Norris, Ph. D., *Tech. Chem.*  
 F. R. Werthmueller, B. S., *Asst. Chem.*

Arthur E. Jordan, *Asst. Chem.*  
 W. P. Naquin, B. S., *Asst. Agr.*  
 D. C. Broderick, *Field Foreman.*  
 A. Koebele, *Consulting Ent.*  
 Frederick Muir, *Asst. Ent.*  
 J. C. Kershaw, F. Z. S., *Asst. Ent.*  
 L. D. Larsen, B. S., *Asst. Path.*  
 Alden T. Speare, A. M., *Asst. Path.*  
 W. R. R. Potter, *Illustrator Sta. Publications.*

**IDAHO.****College of Agriculture of the University of Idaho, Moscow.**

## GOVERNING BOARD.

Board of regents: Edward S. Sweet (*V. Pres.*), *Grangeville*; Mrs. Samuel H. Hays (*Sec.*), *Boise*; E. H. Moffitt, *Wallace*; D. Worth Clark, *Pocatello*; George R. Barker, *Sandpoint*.

## COURSES OF STUDY.

The regular course in agriculture requires four years for completion and leads to the degree of B. S. in agriculture. The student may major in agronomy, animal husbandry, dairying, forestry, or horticulture. A four-year course in home economics (B. S. in D. E.), a three-year secondary course in practical agriculture, a three-year secondary course in home economics, a one-year course in commercial dairying, and a short winter course for forest rangers are also offered.

<sup>1</sup> On leave.



## BOARD OF INSTRUCTION.

James A. MacLean, Ph. D., LL. D., *President of the University; Political Economy.*

William L. Carlyle, M. S., *Dean College of Agr.*  
 John M. Aldrich, Ph. D., *Biol.*  
 J. Shirley Jones, B. S., *Agr. Chem.*  
 C. H. Shattuck, Ph. D., *For.*  
 John F. Nicholson, M. S., *Bact.*  
 William H. Wicks, M. S. A., *Hort.*  
 L. F. Childers, M. S., *Agron.*  
 Edward J. Iddings, B. S. A., *Prin. School of Pract. Agr.; Animal Husb.*  
 Charles E. Temple, A. M., *Bot.*  
 E. W. Hamilton, B. S., B. M. E., *Agr. Engin.*  
 E. T. Baker, D. V. M., *Vet. Sci.*  
 C. W. Colver, B. S., *Instr. Agr. Chem.*  
 Gustav E. Frevert, B. S. A., *Instr. Dairying.*  
 O. M. Osborne, B. S., *Instr. Pract. Agr.*  
 F. L. Kennard, B. S., *Asst. in Agron.*  
 Karl J. Theige, B. S., *Asst. in Bact.*  
 H. A. Wadsworth, B. S., *Asst. in For.*  
 Jay G. Eldridge, Ph. D., *German Lang. and Lit.*  
 Charles N. Little, Ph. D., *Civil Engin.*  
 William S. Morley, Sc. D., *Math.*  
 Henrietta E. Moore, Ph. D., *Engl. Lit.*  
 Lawrence E. Gurney, Ph. D., *Phys.*  
 Thos. E. Cathro, Lieut., U. S. A., *Mil. Sci. and Tactics.*

Carl L. von Ende, Ph. D., *Chem.*  
 Philip Soulen, M. A., *Education.*  
 Clarence C. Tull, M. A., *Engl. Lang.*  
 G. L. Larson, B. S. in C. E., *Mech. Engin.*  
 L. J. Corbett, B. S., *Elect. Engin.*  
 C. A. Stewart, *Geol.*  
 S. G. Patterson, Ph. D., *Romance Lang.*  
 Chas. W. Van de Verr, *Phys. Ed.*  
 David B. Steinman, C. E., Ph. D., *(Asst.) Civil Engin.*  
 Mrs. Jennie L. K. Haner, M. A., *Dom. Art.*  
 Miss L. B. Breese, *Dom. Sci.*  
 Miss J. R. Wold, M. G., *Instr. Phys. Ed.*  
 Horace A. Holaday, *Instr. Chem.*  
 John Kostalek, Ph. D., *Instr. Chem.*  
 Cecil Starring, B. S., *Asst. Hort.*  
 R. W. Brink, B. S., *Instr. Math.*  
 B. H. Lehman, B. A., *Instr. Engl.*  
 George Hall, *Instr. Mech. Engin.*  
 DeWitt C. Gardner, *Asst. in Mech. Engin.*  
 Walter H. Olin, M. S., *(Boise), Dir. Ext. Dept.*  
 Elmer V. Ellington, B. S., *Dairy Field Work.*  
 C. V. Schrack, B. S., *Gard.*  
 Prentice Moore, *Supt. Univ. Farm.*

## Agricultural Experiment Station of the University of Idaho, Moscow.

Department of the University of Idaho, under the control of the board of regents.

## STATION STAFF.

W. L. Carlyle, M. S., *Dir.; Animal Husb.*  
 J. Shirley Jones, B. S., *Agr. Chem.*  
 J. F. Nicholson, M. S., *Bact.*  
 W. H. Wicks, M. S. A., *Hort.*  
 L. F. Childers, M. S., *Agron.*  
 E. J. Iddings, B. S. A., *Animal Husb.*  
 E. T. Baker, D. V. M., *Vet. Sci.*  
 C. E. Temple, A. M., *Plant Path.*  
 E. W. Hamilton, B. S., B. M. E., *Agr. Engin.*  
 C. W. Colver, B. S., *Asst. Agr. Chem.*  
 H. P. Fishburn, M. A., *Asst. Agr. Chem.*  
 G. E. Frevert, B. S. A., *Asst. Dairyman.*  
 E. A. Markham, *Asst. Dairyman.*

K. J. Theige, B. S., *Asst. Bact.*  
 F. L. Kennard, B. S., *Asst. Agron.*  
 C. L. McArthur, B. S., *Asst. Bact.*  
 Cecil Starring, B. S., *Asst. Hort.*  
 C. H. Heard, B. S., *Asst. Hort.*  
 C. V. Schrack, B. S., *Gard.*  
 J. C. Kinzer, *Supt. Live Stock.*  
 Prentice Moore, *Farm Foreman.*  
 W. H. Olin, M. S., *(Boise), Dir. Substas.*  
 L. C. Aicher, B. S., *Supt. Aberdeen Substa.*  
 C. B. Hampson, *Supt. Caldwell Substa.*  
 W. H. Heideman, *Supt. Clagstone Substa.*  
 J. S. Welch, *Supt. Gooding Substa.*

## ILLINOIS.

College of Agriculture of the University of Illinois, Urbana.

## GOVERNING BOARD.

Board of trustees of the university: Gov. Chas. S. Deneen (*ex officio*), *Springfield*; J. M. Crebs\* (*Pres. State Bd. of Agr., ex officio*), *Carmi*; F. G. Blair (*State Supt. of Public Instr., ex officio*), *Springfield*; Mrs. Carrie T. Alexander-Bahrenberg, *Belleville*; Mrs. Laura B. Evans, *Taylorville*; William L. Abbott (*Pres.*), *139 Adams Street, Chicago*; Mrs. Mary E. Busey, *Urbana*; F. L. Hatch, *Spring Grove*; C. M. McConn (*Sec.*), *Urbana*; H. A. Haugan (*Treas.*), *State Bank of Chicago, Chicago*; S. W. Shattuck (*Comptroller*), *Champaign*; Eugene Funk, *Bloomington*; A. P. Grout\*, *Winchester*; Arthur Meeker, *Union Stock Yards, Chicago*; A. F. Moore, *Monticello*.

## COURSES OF STUDY.

There are five four-year courses, leading to the degree of B. S., viz: Agriculture, household science, floriculture, landscape gardening, and a general course for prospective teachers of agriculture; six weeks' summer courses in secondary and elementary agriculture for rural teachers; a four weeks' buttermakers' course; and two weeks' courses in agriculture and domestic science, are offered. Provision is also made for special students.

\* In cooperation with U. S. Department of Agriculture.

## BOARD OF INSTRUCTION.

Edmund J. James, Ph. D., LL. D., *President of the University.*

Eugene Davenport, M. Agr., LL. D., *Dean College of Agr.; Thremmatology.*

Cyril G. Hopkins, Ph. D., *Agron.*

Louie H. Smith, Ph. D., (*Asst.*) *Plant Breeding.*

Jeremiah G. Mosier, B. S., (*Asst.*) *Soil Phys.*

James H. Pettit, Ph. D., (*Asst.*) *Soil Fertility.*

Leonard Hegnauer, A. B., B. S. A., (*Asst.*) *Crop Prod.*

William G. Eckhardt, B. S., *Instr. Soil Fertility.*

Axel F. Gustafson, B. S., *Instr. Soil Phys.*

O. S. Fisher, B. S., *Asst. in Crop Prod.*

H. W. Stewart, B. S., *Instr. Soil Phys.*

Ira W. Dickerson, B. S., *Asst. in Farm Mech.*

Karl J. T. Ekblaw, B. S., *Asst. in Farm Mech.*

C. O. Reed, B. S., *Asst. in Farm Mech.*

M. E. Jahr, A. B., *Asst. in Farm Mech.*

Elmer M. McDonald, B. S., *Asst. in Crop Prod.*

F. C. Bauer, B. S., *Asst. in Soil Fert.*

Herbert W. Mumford, B. S., *Animal Husb.*

Harry S. Grindley, Sc. D., *Animal Chem.*

William Dietrich, M. S., (*Asst.*) *Swine Husb.*

Louis D. Hall, M. S., (*Asst.*) *Animal Husb.*

Walter C. Coffey, M. S., *Assoc. in Sheep Husb.*

Harry P. Rusk, M. S. A., *Assoc. in Animal Husb.*

James L. Edmonds, B. S., *Instr. Horse Husb.*

William H. Smith, B. S., *Instr. Animal Husb.*

W. F. Handschin, *Asst. in Animal Husb.*

Daniel O. Barto, B. S., *Assoc. in Poultry Husb.*

Wilber J. Fraser, M. S., *Dairy Husb.*

Cassius C. Hayden, M. S., (*Asst.*) *Dairy Husb.*

Burt R. Rickards, B. S., (*Assoc.*) *Municipal and Sanitary Dairying.*

Nelson W. Hepburn, M. S., *Assoc. in Dairy Manufactures.*

Royden E. Brand, B. S., *Assoc. in Dairy Husb.*

Le Roy Lang, B. S., *Instr. Dairy Husb.*

W. T. Crandall, B. S. A., *Instr. Milk Prod.*

H. E. McNatt, B. S. A., *Instr. Municipal and Sanitary Dairying.*

R. S. Hulce, B. S. A., *Asst. in Milk Prod.*

J. P. Terry, B. S., *Asst. in Dairy Manufactures.*

Joseph C. Blair, M. S. A., *Pomol.*

Charles S. Crandall, M. S., *Pomol.*

John W. Lloyd, M. S. A., *Oler.*

Herman B. Dorner, B. S., (*Asst.*) *Flor.*

Ernest W. Bailey, M. S., *Assoc. in Hort.*

Louis Brandt, B. S., *Instr. in Landscape Gard.*

Charles E. Durst, B. S., *Instr. Oler.*

A. H. Nehrling, *Instr. Flor.*

Hugh P. Baker, M. F., D. Oec., *For.*

Isabel Bevier, Ph. M., *Household Science.*

Susannah Usher,<sup>1</sup> B. S., (*Asst.*) *Dietetics.*

Nellie E. Goldthwaite, Ph. D., (*Asst.*) *Household Sci.*

Charlotte M. Gibbs, M. A., *Assoc. in Textiles.*

Helena M. Pincomb, B. S., *Assoc. in Household Sci.*

Harriet B. Rinaker, A. M., *Instr. Household Sci.*

Nina B. Crigler, B. S., *Instr. Household Sci.*

Cora E. Gray, M. S., *Instr. Household Sci.*

Pauline Wurster, A. B., M. S., *Instr. Household Sci.*

Donald McIntosh, V. S., *Vet. Sci.*

Fred H. Rankin, *Supt. Agr. Ext.; Asst. to Dean.*

Thomas J. Burrill, Ph. D., LL. D., *V. Pres.; Bot.*

Henry B. Ward, Ph. D., *Zool.*

Charles W. Rolfe, M. S., *Geol.*

Samuel W. Parr, M. S., *Applied Chem.*

Daniel K. Dodge, Ph. D., *Engl. Lit.*

David Kinley, Ph. D., *Econ.; Dean of Graduate School.*

Albert P. Carman, Sc. D., *Phys.*

Evarts B. Greene, Ph. D., *Hist.*

George H. Meyer, M. A., (*Asst.*) *German.*

Thomas A. Clark, B. L., *Rhet.*

Thomas E. Oliver,<sup>1</sup> Ph. D., *Romance Lang.*

Benjamin C. Morse, Major, U. S. A., *Mil. Sci. and Tactics.*

Philip B. Hawk, Ph. D., *Physiol. Chem.*

Chas. F. Hottes, Ph. D., (*Asst.*) *Bot.*

James T. Barrett, Ph. D., *Assoc. in Bot.*

Frank Smith, M. Ph., A. M., (*Assoc.*) *Zool.*

Justus W. Folsom, Sc. D., (*Asst.*) *Ent.*

Neil C. Brooks, Ph. D., (*Asst.*) *German.*

Frank W. Hulce, A. M., (*Assoc.*) *Engl.*

Chas. F. Briscoe, A. M., *Instr. Bact. Bot.*

### Agricultural Experiment Station of the University of Illinois, Urbana.

Department of the University of Illinois, under the control of the board of trustees.

#### STATION STAFF.

Eugene Davenport, M. Agr., LL. D., *Dir.*

C. G. Hopkins, Ph. D., *V. Dir.; Chief in Agron.*

T. J. Burrill, Ph. D., LL. D., *Bot.*

S. A. Forbes, Ph. D., *Consulting Ent.*

Donald McIntosh, V. S., *Consulting Vet.*

H. L. Rietz, Ph. D., *Statistician.*

Catherine McC. McIntyre, *Sec.*

L. H. Smith, Ph. D., *Asst. Chief in Plant Breeding.*

J. G. Mosier, B. S., *Asst. Chief in Soil Phys.*

J. H. Pettit, Ph. D., *Asst. Chief in Soil Fertility.*

Leonard Hegnauer, A. B., B. S. A., *Agron.*

J. E. Readhimer, B. S., *Supt. of Soil Expt. Fields.*

Ernest Van Alstine, B. S., *Assoc. in Chem.*

C. C. Logan, B. S., *Assoc. in Soil Phys.*

W. G. Eckhardt, B. S., *Asst. in Soil Fertility.*

A. F. Gustafson, B. S., *Asst. in Soil Phys.*

J. P. Aumer, B. S., *Asst. in Chem.*

Arthur Lumbrick, B. S., *Asst. in Crop Prod.*

O. S. Fisher, B. S., *Asst. in Soil Fertility.*

J. B. Park, B. S., *Asst. in Chem.*

S. V. Holt, B. S., *Asst. in Soil Survey.*

H. W. Stewart, B. S., *Asst. in Soil Survey.*

H. C. Wheeler, B. S., *Asst. in Soil Survey.*

F. W. Wascher, B. S., *Asst. in Soil Survey.*

F. A. Fisher, B. S., *Asst. in Soil Survey.*

F. W. Garrett, B. S., *Asst. in Soil Survey.*

P. E. Karraker, B. S., *Asst. in Soil Survey.*

Gertrude Niederman, B. S., *Asst. in Chem.*

F. W. Muncie, A. B., *Asst. in Chem.*

J. E. Whitechurch, B. S. (*Salem*), *Asst. in Soil Fertility.*

W. H. Sachs, B. S., *Asst. in Soils.*

<sup>1</sup> On leave.

W. R. Leighty, B. S., *Asst. in Chem.*  
 E. M. McDonald, B. S., *Asst. in Crop Prod.*  
 E. E. Hoskins, B. S., *Asst. in Soil Fertility.*  
 H. W. Mumford, B. S., *Chief in Animal Husb.*  
 H. S. Grindley, Sc. D., *Chief in Animal Husb.*  
 William Dietrich, M. S., *Asst. Chief in Swine Husb.*  
 L. D. Hall, M. S., *Asst. Chief in Animal Husb.*  
 A. D. Emmett, A. M., *Asst. Chief in Animal Nutr.*  
 W. C. Coffey, M. S., *First Asst. in Sheep Husb.*  
 J. L. Edmonds, B. S., *Asst. in Horse Husb.*  
 H. P. Rusk, M. S. A., *Assoc. in Animal Husb.*  
 W. F. Handschin, *Asst. in Animal Husb.*  
 Sleeter Bull, M. S., *Asst. in Animal Nutr.*  
 C. C. Hayden, M. S., *Asst. Chief in Dairy Husb.*  
 W. L. Gaines, M. S., *Assoc. in Dairy Husb.*  
 J. M. Barnhart, B. S., *Asst. Chem. in Dairy Husb.*  
 N. W. Hepburn, M. S., *First Asst. in Dairy Manufactures.*  
 R. E. Brand, B. S., *Asst. in Dairy Husb.*  
 Le Roy Lang, B. S., *Asst. in Dairy Mfg.*  
 J. P. Terry, B. S., *Asst. in Dairy Manufactures.*

R. S. Hulce, B. S. A., *Asst. in Milk Prod.*  
 W. T. Crandall, B. S. A., *Asst. in Milk Prod.*  
 F. A. Jorgensen, *Dairy Field Asst.*  
 B. R. Rickards, B. S., *Dairy Bact. (Municipal Milk Methods.)*  
 J. C. Blair, M. S. A., *Chief in Hort.*  
 C. S. Crandall, M. S., *Chief in Plant Breeding.*  
 J. W. Lloyd, M. S. A., *Chief in Oler.*  
 O. S. Watkins, B. S., *Assoc. Chem. in Hort.*  
 H. B. Dörner, B. S., *Asst. Chief in Flor.*  
 A. H. Nehrling, *Asst. in Flor.*  
 E. W. Bailey, M. S., *Asst. in Hort.*  
 W. B. Gernert, Ph. D., *Asst. in Plant Breeding.*  
 W. A. Ruth, M. S., *Asst. in Hort. Chem.*  
 C. E. Durst, B. S., *Asst. in Oler.*  
 H. W. Anderson, M. A., *Asst. in Path. Flor.*  
 L. E. Foglesong, B. S., *Asst. in Pomol.*  
 A. Jos. Gunderson, B. S., *Asst. in Pomol.*  
 J. T. Barrett, Ph. D., *Chief Asst. in Bot.*  
 Thomas Bregger, B. S., *Asst. in Plant Breeding.*

## INDIANA.

School of Agriculture of Purdue University, La Fayette.

## GOVERNING BOARD.

Board of trustees: Addison C. Harris (*Pres.*), *Indianapolis*; E. A. Ellsworth (*Sec.*), *La Fayette*; J. M. Fowler (*Treas.*), *La Fayette*; George Ade, *Brook*; Charles Downing, *Greenfield*; Chas. Major, *Shelbyville*; J. D. Oliver, *South Bend*; G. A. Jamison, *La Fayette*; C. M. Hobbs, *Bridgeport*; W. V. Stuart, *La Fayette*; Samuel Foster, *Fort Wayne*.

## COURSES OF STUDY.

The course of study in the school of agriculture requires four years for completion and leads to the degree of B. S. in agriculture. There are also short winter courses (eight weeks) in agriculture and horticulture, animal husbandry, dairy husbandry, domestic science and agriculture, and a farmers' week.

BOARD OF INSTRUCTION.<sup>1</sup>

Winthrop Ellsworth Stone, Ph. D., LL. D., *President of the University.*

John H. Skinner, B. S., *Dean School of Agr.; Animal Husb.*  
 Wm. C. Latta, M. S., *Agr.; Supt. of Farmers' Insts.*  
 James Troop, M. S., *Ent.*  
 Robert A. Craig, D. V. M., *Vet Sci.*  
 Alfred T. Wiancko, B. S. A., *Agron.*  
 Otto F. Hunziker, M. S. A., *Dairy Husb.*  
 Stanley Coulter, Ph. D., LL. D., *Biol.*  
 J. C. Arthur, D. Sc., *Veg. Physiol. and Path.*  
 Percy N. Evans, Ph. D., *Chem.*  
 Ervin S. Ferry, B. S., *Phys.*  
 Emma M. McRae, M. A., *Engl. Lit.*  
 Thos. F. Moran, Ph. D., *Hist. Polit. Econ.*  
 Herman Babson, Ph. D., *German.*  
 Pauline Mariotte-Davies, Ph. D., *French.*  
 Alfred M. Kenyon, A. M., *Math.*  
 Thos. G. Alford, A. M., *Math.*  
 George L. Roberts, M. A., *Indus. Ed.*  
 Harrison J. Price, A. B., Capt., U. S. A., *Mil. Sci. and Tactics; Comdt. of Cadets.*  
 James H. Ransom, Ph. D., *Gen. Chem.*  
 Mrs. Henrietta W. Calvin, B. S., *Household Econ.*  
 George I. Christie, B. S. A., *Agr. Ext.*  
 Martin L. Fisher, M. S., *Crop Prod.*  
 C. G. Woodbury, M. S., *Hort.*  
 Severance Burrage, S. B., (*Assoc.*) *Sanitary Sci.*

Carolyn E. Shoemaker, M. S., (*Assoc.*) *Engl.*  
 Edw. G. Mahin, Ph. D., (*Assoc.*) *Chem.*  
 Edward H. Davis, S. B., (*Assoc.*) *Econ.; Registrar.*  
 W. McE. Nye, B. S., (*Asst.*) *Farm Mech.*  
 Wm. W. Smith, M. S. A., (*Asst.*) *Animal Husb.*  
 Chas. M. Smith, B. S., (*Asst.*) *Phys.*  
 A. R. Middleton, Ph. D., (*Asst.*) *Chem.*  
 Howard E. Enders, Ph. D., (*Asst.*) *Zool.*  
 Oliver P. Terry, M. S., M. D., (*Asst.*) *Physiol.*  
 S. D. Conner, M. S., (*Asst.*) *Agr. Chem.*  
 J. D. Jarvis, B. S. A., *Instr. Dairying.*  
 Harry E. Allen, B. S. A., *Instr. Animal Husb.*  
 Carl F. Gobble, B. S., *Instr. Animal Husb.*  
 Allen G. Phillips, B. S. A., *Instr. Poultry Husb.*  
 Fredk. J. Breeze, B. S., *Instr. Biol.*  
 Geo. N. Hoffer, B. S., *Instr. Biol.*  
 Jesse G. Boyle, B. S., *Instr. Hort.*  
 C. E. Brehm, B. S., *Instr. Hort.*  
 C. E. Craig, M. S. A., *Instr. Agron.*  
 Edw. J. Petry, B. S., *Instr. Agron.*  
 P. L. Roberts, B. S., *Instr. Dairying.*  
 E. M. D. Bracker, B. S., *Asst. in Farm Mech.*  
 J. E. Dougherty, B. S., *Asst. in Poultry Husb.*  
 Alice M. Dolman, M. S., *Asst. in Household Econ.*  
 Mary E. Gamble, *Asst. in Household Econ.*  
 Wm. M. Hepburn, A. M., *Libr.*

<sup>1</sup> This list does not include the instructors exclusively engaged in the schools of engineering, science and pharmacy.



**Agricultural Experiment Station of Indiana, La Fayette.**

Department of Purdue University, under the control of the board of trustees.

## STATION STAFF.

- Arthur Goss, M. S., A. C., *Dir., Chem.*  
 J. C. Arthur, D. Sc., *Bot.*  
 Geo. I. Christie, B. S. A., *Supt. Agr. Ext.*  
 R. A. Craig, D. V. M., *Vet.*  
 O. F. Hunziker, M. S. A., *Chief Dairy Husb.*  
 Wm. J. Jones, jr., M. S., A. C., *State Chem. (in charge Fert. and Feed. Stuff Control).*  
 J. H. Skinner, B. S., *Chief Animal Husb.*  
 James Troop, M. S., *Hort.*  
 A. T. Wiancko, B. S. A., *Agron.*  
 John B. Abbott, M. S., *Asst. in Soil Improvement.*  
 Evelyn Allison, B. S., *Asst. in Bot.*  
 Thomas Billings, *Asst. in Plant Culture.*  
 Jesse G. Boyle, B. S., *Asst. Hort.*  
 S. D. Conner, M. S., *Assoc. Chem.*  
 C. O. Cromer, B. S., *Assoc. Agron.*  
 Carleton Cutler, B. S., *Deputy State Chem. (Fert. and Feed. Stuff Control).*  
 Ralph B. Deemer, B. S., *Deputy State Chem. (Fert. and Feed. Stuff Control).*  
 Wm. F. Epple, Ph. G., Ph. C., *Asst. Dairy Chem.*  
 Martin L. Fisher, M. S., *Assoc. in Crop Prod.*  
 Mary A. Fitch, A. M., *Sci. Asst. in Bot.*  
 Fredk. D. Fuller, B. S., *Chief Deputy State Chem. (Fert. and Feed. Stuff Control).*  
 J. D. Jarvis, B. S. A., *Asst. in Dairy Manufactures.*  
 Frank D. Kern,<sup>1</sup> Ph. D., *Assoc. Bot.*  
 F. G. King, B. S., *Assoc. in Animal Husb.*  
 Rex A. Whiting, D. V. M., *Assoc. in Animal Path.*  
 John W. McFarland, B. S., *Insp. State Chem. Dept. (Fert. and Feed. Stuff Control).*  
 H. H. Madaus, B. S., *Asst. in Vet. Lab.*  
 H. C. Mills, B. S., *Asst. in Dairy Husb.*  
 C. R. Orton, B. S., *Asst. Bot.*  
 A. G. Phillips, B. S. A., *Assoc. in Poultry Work.*  
 Wm. J. Phillips,<sup>2</sup> M. S., *Ent. (Cereal and Forage Crop Insect Invest.).*  
 F. J. Pipal, *Asst. Bot.*  
 E. G. Proulx, M. S., *Deputy State Chem. (Fert. and Feed. Stuff Control).*  
 M. W. Richards, M. S., *Asst. Hort.*  
 O. S. Roberts, B. S., *Chief Insp. State Chem. Dept. (Fert. and Feed. Stuff Control).*  
 R. E. Caldwell, B. S., *Assoc. in Milk Prod.*  
 P. L. Roberts, B. S., *Asst. in Dairy Manufactures.*  
 George Spitzer, Ph. G., B. S., *Dairy Chem.*  
 Jos. W. Wellington, B. S., *Asst. Hort.*  
 C. G. Woodbury, M. S., *Assoc. Hort.*  
 Winfred R. Wright, B. S., *Asst. in Dairy Bact.*  
 H. R. Smalley, B. S., *Asst. Chem. (Soils and Crops Dept.).*  
 J. E. Dougherty, B. S., *Asst. in Poultry Husb.*  
 Otis Crane (*Lebanon*), *Ext. Work in Poultry.*  
 G. M. Frier, B. S. A., *Asst. in Agr. Ext.*  
 Gertrude M. McCheyne, B. S., *Lect. in Dom. Sci. (Ext. Dept.).*  
 D. O. Thompson, B. S., *Ext. Work in Animal Husb.*  
 Lovina S. Merick,<sup>2</sup> *Seed Analyst (Ext. Dept.).*  
 Wm. D. Collier, *Foreman in Agron. Dept.*  
 J. D. Grossman, *Foreman in Hort. Dept.*  
 W. E. Kidd, *Supt. Poultry Farm.*  
 Nellie Tracy, *Clerk Libr.*

## IOWA.

Iowa State College of Agriculture and Mechanic Arts, Ames.

## GOVERNING BOARD.

Board of education: J. H. Trewin (*Pres.*), *Cedar Rapids*; A. B. Funk, *Spirit Lake*; P. K. Holbrook, *Onawa*; Roger Leavitt, *Cedar Falls*; C. R. Brenton, *Dallas Center*; T. D. Foster, *Ottumwa*; E. T. Schoentgen, *Council Bluffs*; D. D. Murphy, *Elkader*; G. T. Baker, *Davenport*; Edgar W. Stanton (*Sec.*), *Ames*; Herman Knapp (*Treas.*), *Ames*.

## COURSES OF STUDY.

The courses of study are 15, each requiring four years for completion, with optional five-year courses in the division of engineering, leading to advanced degrees. The courses in agriculture (agronomy, dairying, animal husbandry, horticulture and forestry, agricultural engineering, agricultural education, science, and home economics), lead to the degree of B. S.; the course in veterinary science, to the degree of D. V. M.; the course in mechanical engineering, to the degree of B. S. in M. E.; the course in civil engineering, to the degree of B. S. in C. E.; the course in electrical engineering, to the degree of B. S. in E. E.; the course in mining engineering, to the degree of B. S. in E. M.; the course in ceramics, to the degree of B. S. in Cer.; the course in science as related to the industries, to the degree of B. S., and the course in home economics for women, to the degree of B. S. in H. E. There are also two-year courses in agriculture and clay working; one-year courses in dairying and poultry husbandry; a one-year preparatory course; short winter courses in stock and grain judging, dairying, horticulture and forestry, agricultural engineering, animal and poultry husbandry, soils, domestic science, and a course in agricultural journalism. A summer vacation school of road investigations, and two weeks' summer courses in agriculture, animal husbandry, dairying, soils, horticulture, manual training, and household economics are also offered.

<sup>1</sup> On leave.<sup>2</sup> Detailed by the U. S. Department of Agriculture.

## BOARD OF INSTRUCTION.

Edgar W. Stanton, M. S., LL. D., *Acting President; Dean of the Junior College; Mathematics.*

- Charles F. Curtiss, M. S. A., D. Sc., *Dean Div. Agr.*  
 Hon. James Wilson, M. S. A., *Lect. in Agr.*  
 Gen. James R. Lincoln, *Mil. Sci.*  
 Alfred A. Bennett, M. S., *Chem.*  
 Louis H. Pammel, Ph. D., *Bot.*  
 Fletcher Briggs, Ph. B., A. M., *Mod. Lang.*  
 Louis B. Spinney, B. M. E., M. S., *Phys., Illuminating Engin.*  
 Alvin B. Noble, B. Ph., *Rhet., Lit.*  
 Chas. H. Stange, D. V. M., *Dean Div. of Vet. Med.; Vet. Med., Surgery.*  
 Henry E. Summers, B. S., *Zool.*  
 Robert E. Buchanan, Ph. D., *Gen. Bact.*  
 Wm. W. Dimock, B. Agr., D. V. M., *Path., Bact.*  
 Martin Mortensen, B. S. A., (*Assoc.*) *Dairying; Actg. Head of Dairy Dept.*  
 Orange H. Cessna, A. M., D. D., *Hist., Psych.*  
 Willard J. Kennedy, B. S. A., *Animal Husb.*  
 Arthur MacMurray, B. A., M. O., *Public Speaking.*  
 Wm. H. Stevenson, A. B., B. S. A., *Agron.*  
 J. Brownlee Davidson, B. S. in M. E., M. S. A., *Agr. Engin.*  
 Spencer A. Beach, B. S. A., M. S., *V. Dean Div. Agr.; Hort.*  
 H. D. Hughes, M. S. A., *Head of Farm Crops Dept.*  
 Ashley Van Storm, Ph. B., *Head of Dept. of Agr. Ed.*  
 Benjamin H. Hibbard, Ph. D., *Econ., Polit. Sci.*  
 Catharine J. MacKay, H. E., *Dom. Econ.*  
 Maria M. Roberts, B. L., (*Assoc.*) *Math.; V. Dean of Junior College.*  
 Arthur T. Erwin, M. S. A., (*Assoc.*) *Hort.*  
 Lola A. Placeway, B. S., (*Assoc.*) *Chem.*  
 Winfred F. Coover, A. M., (*Assoc.*) *Chem.*  
 C. N. Arnett, B. S., (*Assoc.*) *Animal Husb.*  
 Wm. H. Pew, B. S. A., (*Assoc.*) *Animal Husb.*  
 Elizabeth Maclean, M. Di., B. Ph., (*Assoc.*) *Engl.*  
 G. B. MacDonald, B. S. F., (*Assoc.*) *For.*  
 John N. Martin, A. B., (*Assoc.*) *Morphology.*  
 E. N. Wentworth, M. S. A., (*Assoc.*) *Animal Husb.*  
 H. H. Kildee, B. S. A., (*Assoc.*) *Animal Husb.; Supt. of Dairy Farm.*  
 Harold E. Bemis, B. S., D. V. M., (*Assoc.*) *Vet. Sci.*  
 Grace M. Viall, Ed. B., Ph. B., (*Assoc.*) *Home Econ.*  
 L. B. Schmidt, A. M., Ph. B., (*Assoc.*) *Hist.*  
 J. E. Brindley, Ph. D. (*Assoc.*) *Econ. Sci.*  
 Grace E. Russell, B. S. F., (*Assoc.*) *Home Econ.*  
 Vina E. Clark, *Libr.*  
 Herman Knapp, B. S. A., *Registrar.*  
 Joseph E. Guthrie, M. S., (*Asst.*) *Zool.*  
 Ernest A. Pattengill, B. S., (*Asst.*) *Math.*  
 Julia T. Colpitts, A. M., (*Asst.*) *Math.*  
 A. H. Hoffman, A. M., B. S. in E. E., (*Asst.*) *Phys.*  
 W. B. Anderson, Ph. D., (*Asst.*) *Phys.*  
 Walter H. Cooper, M. S., (*Asst.*) *Dairying.*  
 Howard S. Murphy, D. V. M., (*Asst.*) *Vet. Med.*  
 Henry D. Bergman, D. V. M., (*Asst.*) *Vet. Med.*  
 Julia R. Vault, A. M., (*Asst.*) *Engl.*  
 Dora G. Tompkins, A. M., (*Asst.*) *Engl.*  
 W. R. Raymond, B. A., (*Asst.*) *Engl.*  
 C. E. Bartholomew, M. S., (*Asst.*) *Ent.*  
 Claude K. Shedd, A. B., (*Asst.*) *Agr. Engin.*  
 B. W. Hammer, B. S. A., (*Asst.*) *Dairy Bact.*  
 Percy E. Brown, B. S., A. M., (*Asst.*) *Soil Bact.*  
 Roy E. Smith, B. S. A., M. S., (*Asst.*) *Soils.*  
 Mark G. Thornburg, B. S. A., (*Asst.*) *Animal Husb.*  
 Martin F. P. Costello, B. S., C. E., (*Asst.*) *Agr. Engin.*  
 Otto M. Hokaasen, A. M., (*Asst.*) *Hist.*  
 Nelson C. Brown, B. A., M. F., (*Asst.*) *For.*  
 Jules C. Cunningham, B. S., (*Asst.*) *Hort., Bot.*  
 Alexander S. Thompson, *Dir. of Music; Piano, Pipe Organ, Voice.*  
 Mrs. Clara D. Thompson, *V. Dir. of Music; Instr. Voice, Piano, Organ.*  
 Edward A. Eberhardt, M. A., *Instr. German.*  
 Frank W. Allen, Jr., B. S. A., *Instr. Hort.*  
 Laura M. Taggart, B. S., *Instr. Chem.*  
 Agnes G. Mosher, M. S., *Instr. Math.*  
 J. C. Bowman, A. M., B. Litt., *Instr. Engl.*  
 Ingeborg G. Lommen, A. B., M. L., *Instr. German.*  
 Leeta B. Southwick, M. A., *Instr. German, Spanish.*  
 Lola Stephens, B. S., *Instr. Chem.*  
 F. W. Beckman, B. Ph., *Instr. Agr. Journalism.*  
 Anna W. Fleming, B. S., *Instr. Math.*  
 May Chase, B. S., *Instr. Math.*  
 Ward M. Jones, B. C. E., *Instr. Math.*  
 Grace I. Norton, B. A., *Instr. German.*  
 Mrs. Mary P. Fairfield, A. B., *Instr. French.*  
 Mrs. Margaret A. Arville, A. B., *Instr. French, Spanish.*  
 J. Mildred MacLean, A. M., *Instr. Engl.*  
 Harry J. Evans, B. S. A., *Instr. Dairying.*  
 William Kunerth, A. B., *Instr. Phys.*  
 Helen F. Smith, A. B., *Instr. Math.*  
 Frederica V. Shattuck, A. B., *Instr. Public Speaking*  
 Charlotte Dryden, Ph. B., *Instr. Public Speaking.*  
 C. Adele Rankin, A. B., *Instr. Public Speaking.*  
 L. W. Forman, B. S. A., *Instr. Soils.*  
 Harry V. Caldwell, B. S. A., *Instr. Soils.*  
 Arthur L. Bakke, M. S., *Instr. Plant Path.*  
 Ada Hayden, M. S., *Instr. Gen. Bot.*  
 Harriette S. Kellogg, A. M., *Curator of Herbarium.*  
 Wm. R. Hechler, B. S. A., *Instr. Farm Crops.*  
 F. N. Marcellus, *Instr. Poultry Husb.*  
 Ava B. Milam, Ph. B., A. M., *Instr. Home Econ.*  
 Winnifred S. Gettemy, *Instr. Home Econ. (Applied Design).*  
 B. M. Harrison, M. S., *Instr. Zool.*  
 Chas. L. Mundhenk, *Dir. Band; Instr. Brass Instruments.*  
 Daniel W. Sylvester, *Instr. Agr. Engin.*  
 Charles Murray, B. Ped., B. S., *Instr. Gen. and Vet. Bact.*  
 Esther L. Cooper, Ph. B., *Instr. Engl.*  
 Wm. A. Bevan, B. S., *Instr. Phys.*  
 Ingeborg S. Tune, *Instr. Music.*  
 Cassandra Wallace, *Instr. Violin.*  
 Henry L. Eichling, *Instr. Farm Crops.*  
 Chas. S. Beardshear, B. S. A., *Instr. Dairying.*  
 R. Glen Jones, B. S. A., *Instr. Dairying.*  
 Leslie C. Nanney, B. S., *Instr. Chem.*  
 Henry Ness, *Instr. Zool.*  
 Stanley B. Fracker, A. B., *Instr. Zool.*  
 M. H. Hoffman, M. Di., *Instr. Agr. Engin.*



R. R. Clem, *Instr. Agr. Engin.*  
 Hugo H. Beckmann, *Instr. Agr. Engin.*  
 Winifred Tilden, B. A., *Dir. Phys. Culture.*  
 George Mitchell, *Farm Foreman.*  
 Chas. O. Alexander, B. M. E., *Asst. in Agr. Engin.*  
 Chester C. Fowler, B. S., *Asst. in Chem.*  
 Nellie M. Naylor, B. A., *Asst. in Chem.*  
 Burleigh B. Reed, B. S., *Asst. in Chem.*  
 Helen Hunting, A. B., *Asst. in Chem.*  
 John H. Buchanan, B. S., *Asst. in Chem.*  
 George Sutherland, B. S., *Asst. in Chem.*  
 Helen Schell, A. B., *Asst. in Chem.*

E. H. Dusham, A. B., *Asst. in Zool.*  
 R. A. Chitty, B. S. A., *Asst. in Farm Crops.*  
 W. A. Lintner, B. S. A., *Asst. in Farm Crops.*  
 O. H. Henderson, B. S., B. LL., *Lect. in Econ. Sci.*  
 George Judisch, *Lect. in Pharm.*  
 Harriette Sessions, B. S., *Reference Libr.*  
 Robina M. Rae, *Agr. Libr.*  
 Maria C. Brace, Ph. B., *Gen. Asst. Libr.*  
 John P. Watson, *Phys. Dir.*  
 Mellie M. Smith, *Libr. Cataloguer.*  
 Kathreen Holdridge, B. A., *Asst. Libr. Cataloguer.*  
 John Reardon, *Gard.*

#### Agricultural Extension.

Perry G. Holden, M. S., B. Pd., *Supt.*  
 E. C. Bishop, *Secondary School Agr.*  
 Addison H. Snyder, B. S. A., *Soils.*  
 Ralph K. Bliss, B. S. A., *Animal Husb.*  
 Neale S. Knowles, *Household Econ.*  
 Louise H. Campbell, B. S., *Household Econ.*  
 G. R. Bliss, B. S. A., *Hort.*

Emil Y. Cable, B. S. A., *Agr. Engin.*  
 Martin L. Mosher, B. S. A., *Lect. in Farm Crops.*  
 Muri McDonald, B. S., *Asst. in Farm Crops.*  
 Arthur A. Burger, B. S. A., *Animal Husb.*  
 Theo. H. Macklin, B. S., *Dairying.*  
 Roy A. Cave, B. S., *Dairy Test Work.*  
 Geo. E. Stayner, *Sec.*

#### Iowa Agricultural Experiment Station, Ames.

Department of Iowa State College of Agriculture and Mechanic Arts, under the control of the board of trustees.

#### STATION STAFF.

C. F. Curtiss, M. S. A., D. Sc., *Dir.*  
 W. J. Kennedy, B. S. A., *V. Dir.; Animal Husb.*  
 S. A. Beach, B. S. A., M. S., *Hort.*  
 L. H. Pammel, Ph. D., *Bot.*  
 H. E. Summers, B. S., *Ent.*  
 C. H. Stange, D. V. M., *Vet.*  
 W. H. Stevenson, A. B., B. S. A., *Agron.*  
 S. L. Jodidi, Ph. D., *Expt. in Soils.*  
 A. W. Dox, Ph. D., *Chem.*  
 J. B. Davidson, B. S. in M. E., M. S. A., *Agr. Engin.*  
 G. B. MacDonald, B. S. F., *For.*  
 Martin Mortensen, B. S. A., *Dairying.*  
 R. E. Buchanan, Ph. D., *Bact.*  
 Vina E. Clark, *Libr.*  
 H. D. Hughes, M. S. A., *Farm Crops.*  
 John Buchanan, *Farm Crops.*  
 B. W. Hammer, B. S. A., *Asst. Dairy Bact.*  
 Laurenz Greene, M. S. A., *Expt. Hort.*  
 L. C. Burnett,<sup>1</sup> M. S. A., *Asst. in Farm Crops; in charge of Cereal Breeding.*  
 M. L. King, B. M. E., *Expt. in Agr. Engin.*

H. H. Kildee, B. S. A., *Expt. in Animal Husb.*  
 J. M. Evvard, M. S., *Expt. in Animal Husb.*  
 P. E. Brown, B. S., A. M., *Expt. in Soil Bact.*  
 F. N. Marcellus, *Poultry Husb.*  
 A. A. Wells, M. S., *Asst. in Soils.*  
 Harriette S. Kellogg, A. M., *Asst. Bot.*  
 Charlotte M. King, *Asst. Bot.*  
 R. L. Webster, A. B., *Asst. Ent.*  
 S. C. Guernsey, B. S. A., *Asst. Chem.*  
 R. E. Neidig, *Asst. Chem.*  
 W. G. Gaessler, B. S., *Asst. Chem.*  
 L. A. Maynard, A. B., *Asst. Chem.*  
 H. B. Kinney, B. S. A., *Research Asst. in Soil Chem.*  
 J. H. Allison, jr., *Asst. in Plant Introduction.*  
 H. C. Cosgriff, *Field Supt. in Agron.*  
 F. W. Beckman, B. Ph., *Bulletin Editor.*  
 Robina M. Rae, *Asst. Libr.*  
 Herman Knapp, *Treas.*  
 E. J. Strausbaugh, *Herdsmen.*  
 F. E. Colburn, *Photog.*

#### KANSAS.

##### Kansas State Agricultural College, Manhattan.

#### GOVERNING BOARD.

Board of regents: Arthur Capper (*Pres.*), *Topeka*; W. E. Blackburn, *Anthony*; J. O. Tulloss, *Sedan*; Edwin Taylor (*V. Pres.*), *Edwardsville*; A. L. Sponsler, *Hutchinson*; M. M. Sherman, *Crawford*; H. J. Waters (*Sec. ex officio*), *Manhattan*.

#### COURSES OF STUDY.

There are 13 four-year courses of study, viz: Agronomy, animal husbandry, dairy husbandry, horticulture, mechanical engineering, electrical engineering, civil engineering, architecture, printing, industrial journalism, home economics, general science (B. S.), and veterinary medicine (D. V. M.); postgraduate courses; a two-year course in agriculture; two-year winter courses in agriculture and dairying; short courses in dairy manufacture and in testing dairy products; short courses in foundry work, blacksmithing, and machine practice; a two-year summer course (10 weeks each) in home economics; a six weeks' summer school in agriculture, manual training, and domestic science for teachers; a six months' course in house-keeping, and correspondence courses.

<sup>1</sup> In cooperation with the U. S. Department of Agriculture.

## BOARD OF INSTRUCTION.

Henry J. Waters, B. S. A., *President; Acting Professor of Animal Husbandry.*

- John D. Walters, M. S., D. A., *Arch.*, *Draw.*  
 Julius T. Willard, D. Sc., *Dean of Sci. and Chem.*  
 Edw. H. Webster, B. Agr., M. S., *Dean of Agr.*  
 Benjamin L. Remick, Ph. M., *Math.*  
 Benjamin F. Eyer, B. S., E. E., *Elect. Engin.*  
 Herbert F. Roberts, A. B., M. S., *Bot.*  
 Wm. A. McKeever, A. M., Ph. M., *Philos.*  
 Edmund B. McCormick, S. B. in M. E., *Dean Mech.*  
*Arts; Power and Expt. Engin.*  
 Albert Dickens, M. S., *Hort.*; *Supt. of Grounds; State For.*  
 Clark M. Brink, A. M., Ph. D., *Dean of College; Engl. Lit.*  
 Albert M. Ten Eyck, B. Agr., M. S., *Farm Mgt.*; *Supt. of Fort Hays Branch Expt. Sta., Hays.*  
 Ralph R. Price, A. M., *Hist., Civics.*  
 Julius E. Kammeyer, A. M., *Econ.*  
 John V. Cortelyou, Ph. D., *German.*  
 Olof Valley, B. M., *Music.*  
 L. E. Conrad, M. S., *Civil Engin.*  
 Francis S. Schoenleber, M. S. A., D. V. S., M. D., *Vet. Sci.*  
 T. J. Headlee, Ph. D., *Ent.*, *Geol.*  
 Joshua D. Rickman, *Supt. of Print.*  
 R. P. Harbold, Lieut., U. S. A., *Mil. Sci.*  
 John O. Hamilton, B. S., *Phys.*  
 Mrs. Mary P. Van Zile, *Dean of Women; Dom. Sci.*  
 Charles A. Scott, B. S. A., *For. State For.*  
 Antonetta Becker, *Supt. Dom. Art.*  
 Leslie A. Fitz, B. S., *in charge of Milling Indus.*  
 Charles Dillon, *Indus. Journalism.*  
 Blanche A. Enyart, A. B., *Dir. Phys. Training for Women.*  
 William M. Jardine, B. S. A., *Agron.*  
 Roy A. Seaton, M. S., *Applied Mech.*  
 Andrey A. Potter, B. S., *Mech. Engin.*  
 Ollie E. Reed, M. S. A., *Dairy Husb.*  
 W. A. Lippincott, A. B., B. S. A., *Poultry Husb.*  
 James W. Searson, A. M., *Engl. Lang.*  
 Edwin L. Holton, A. B., *Rural Ed.*  
 Guy S. Lowman, *Phys. Ed.*  
 Arthur B. Smith, M. A., *Libr.*  
 Leland E. Call, B. S. A., *(Assoc.) Soils.*  
 Margaret Butterfield, *Sec.*  
 Jacob Lund, M. S., *Supt. Heat and Power Dept.*  
 R. H. Brown, B. M., B. S., *(Asst.) Music.*  
 George A. Dean, M. S., *(Asst.) Ent.*  
 Arthur H. Leidigh, B. S., *(Asst.) Farm Crops.*  
 Louis H. Beal, A. B., *(Asst.) Engl. Lang. and Lit.*  
 Geo. E. Bray, M. E., *(Asst.) Shop Methods and Pract.*  
 K. W. Stouder, D. V. M., *(Asst.) Vet. Med.*  
 Leonard W. Goss, D. V. M., *(Asst.) Vet. Sci.*  
 R. R. Dykstra, D. V. M., *(Asst.) Vet. Med.*  
 James H. Burt, V. S., D. V. M., *(Asst.) Vet. Med.*  
 Leland D. Bushnell, B. S., *(Asst.) in charge Bact.*  
 Paul N. Flint, M. S., *(Asst.) Animal Husb.*  
 M. Francis Ahearn, M. S., *(Asst.) Hort.*  
 E. P. Johnston, A. B., *(Asst.) Public Speaking.*  
 Chas. O. Swanson, M. A., *(Asst.) Agr. Chem.*  
 Herbert H. King, M. A., *(Asst.) Chem.*  
 John B. Whelan, M. A., *(Asst.) Chem.*  
 Ula M. Dow, B. S., *(Asst.) Dom. Sci.*  
 Edwin C. Miller, Ph. D., *Instr. Bot.*  
 Robert K. Nabours, Ph. D., *Instr. Zool.*  
 John W. Scott, Ph. D., *Instr. Zool.*  
 Burton R. Rogers, D. V. M., *Instr. Vet. Med.*  
 Ella Weeks, A. B., *Instr. Draw.*  
 Ada Rice, B. S., *Instr. Engl.*  
 Daisy Zeiniger, B. A., *Instr. Math.*  
 Wm. L. House, *Instr. Woodwork; Foreman of Carpenter Shop.*  
 J. H. Hollar, *Foreman of Blacksm.*  
 Raymond G. Taylor, A. B., *Instr. Hist.*  
 Ina F. Cowles, B. S., *Instr. Dom. Art.*  
 Annette Leonard, A. B., *Instr. Engl.*  
 Edwd. V. Floyd, B. S., *Instr. Phys.*  
 Alfred E. White, M. S., *Instr. Math.*  
 Porter J. Newman, M. S., *Instr. Chem.*  
 Leonard M. Peairs, M. S., *Instr. Ent.*  
 Francis B. Millikin, B. S., *Instr. Zool.*  
 Neil E. Stevens, Ph. D., *Instr. Bot.*  
 Annie E. Lindsey, *Instr. Dom. Sci.*  
 Gertrude A. Barnes, *Asst. Libr.*  
 Amanda K. Tinkey, *Asst. Libr.*  
 Florence Warner, A. B., *Libr. Cataloguer.*  
 Grace E. Derby, A. B., *Asst. in Libr.*  
 Estella M. Boot, A. M., *Asst. in Engl.*  
 Ina E. Holroyd, B. S., *Asst. in Math.*  
 Earl N. Rodell, B. S., *Asst. in Print.*  
 J. T. Parker, *Asst. in Woodwork.*  
 Charlaire Furley, B. A., *Asst. in Engl.*  
 Jessie A. Reynolds, B. A., *Asst. in Hist., Civics.*  
 Anna W. Gordon, A. B., *Asst. in Hist., Civics.*  
 Margaret A. Mack, *Asst. in Hist., Civics.*  
 S. W. McGarrath, A. M., *Asst. in Math.*  
 Madge Kay, B. S., *Asst. in Math.*  
 Flora C. Knight, A. B., *Asst. in Engl.*  
 Dean H. Rose, A. M., *Asst. in Bot.*  
 C. A. A. Utt, B. S., *Asst. in Chem.*  
 J. R. Jenness, B. S., *Asst. in Phys.*  
 Harrison E. Porter, B. S., *Asst. in Math.*  
 R. C. Wiley, B. S., *Asst. in Chem.*  
 E. F. Kubin, D. V. M., *Asst. in Vet. Sci.*  
 Thomas G. Paterson, B. S. A., *Asst. in Animal Husb.*  
 Turner R. H. Wright, B. S. A., *Asst. in Animal Husb.*  
 Chas. W. McCampbell, B. S., D. V. M., *Asst. in Animal Husb.*  
 John W. Calvin, B. S., *Asst. in Animal Nutr.*  
 Helen K. Huse, B. S., *Asst. in Dom. Sci.*  
 E. G. Schafer, M. S., *Asst. in Farm Crops.*  
 Burton S. Orr, B. S., *Asst. in Power and Expt. Engin.*  
 Elmer Johnson, B. S., *Asst. in Power and Expt. Engin.*  
 Amy A. Allen, B. S., *Asst. in Print.*  
 Ada M. Baum, *Asst. in Music.*  
 Ethel K. Ping, *Asst. in Music.*  
 B. H. Ozement, A. B., *Asst. in Music.*  
 Clara Biddison, B. S., *Asst. in Vocal Music.*  
 Charlotte A. Morton, B. S., *Asst. in Draw.*  
 Frank C. Harris, B. S., *Asst. in Archi. Draw.*  
 Carl F. Chase, B. S., *Asst. in Farm. Mech.*  
 Ella F. Miles, *Asst. in Dom. Sci.*  
 J. S. Hughes, A. M., M. S., *Asst. in Chem.*  
 C. H. Clevenger, M. A., *Asst. in Math.*

Arthur R. Fehn, Ph. B., *Asst. in Math.*  
 W. T. Stratton, A. B., *Asst. in Math.*  
 Geo. E. Raburn, A. B., *Asst. in Phys.*  
 Jane A. Humphrey, B. A., *Asst. in Dom. Sci.*  
 Laura B. Storms, B. S., *Asst. in Dom. Sci.*  
 Nelson A. Crawford, jr., A. B., *Asst. in Engl.*  
 A. L. Harris, *Asst. in Heat and Power Dept.*  
 James B. Fitch, B. S., *Asst. in Dairying.*  
 A. W. Rudnick, B. S., *Asst. in Dairying.*  
 Jos. G. Lill, M. S., *Asst. in Agron.*  
 Harold T. Nielsen, B. S., *Asst. in Coop. Expts.*  
 David E. Lewis, B. S., *Asst. in Hort.*  
 J. G. Jackley, D. V. M., *Asst. in Bact.*  
 A. M. Woodman, B. S. in E. E., *Asst. in Bot.*  
 Harlan D. Smith, B. S., *Asst. in Indus. Journalism.*

David G. Blattner, B. S. in E. E., *Asst. in Phys.*  
 Grover Pratt, B. S., *Asst. in Archi.*  
 Carlotta Ford, B. S., *Asst. in Dom. Sci.*  
 Jennie E. Caton, B. S., *Asst. in Dom. Sci.*  
 Nettie B. Humfeld, A. B., *Asst. in Dom. Art.*  
 Anna Bayha, B. S., *Asst. in Dom. Art.*  
 Grace Smiley, A. B., *Asst. in Dom. Art.*  
 Sada Mutchle, B. S., *Asst. in Dom. Art.*  
 Helen V. Hobbs, B. S., *Asst. in Dom. Art.*  
 Max Ravitch, A. M., *Asst. in Engl. Lang.*  
 I. Victor Iles, A. M., *Asst. in Hist.*  
 Ray Gilman, A. B., *Asst. in Math.*  
 Geo. A. Davis, *Asst. in Molding.*  
 Bruce S. Wilson, B. S., *Farm Foreman.*  
 T. E. Schreiner, *Poultry Foreman.*

## College Extension.

John H. Miller, A. M., *Dir.*  
 George W. Conn, *Supt. Farmers' Insts.*  
 P. E. Crabtree, *Farm Mgt.*  
 George C. Wheeler, B. S., *Animal Husb.*  
 Clarence V. Holsinger, B. S., *Hort.*  
 George S. Hine, B. S., *Dairying.*  
 Frances L. Brown, B. S., *Home Econ.*  
 Mrs. Mary E. Simmons, B. S., *Home Econ.*

Ella M. Nash, A. B., B. S., *Home Econ.*  
 Nellie L. Thompson, B. S., *Home Econ.*  
 Harry L. Kent, *Correspondence Courses.*  
 Edwin L. Holton, A. B., *Rural Ed.*  
 W. S. Gearhart, B. S. in C. E., *State Highway Engin.*  
 Harry B. Walker, B. S. in C. E., *Drainage Engin.*  
 A. R. Losh, B. S., *Bridge Engin.*  
 H. J. C. Umberger, B. S., *Dry Land Farming.*

## Kansas Agricultural Experiment Station, Manhattan.

Department of Kansas State Agricultural College, under the control of the board of regents.

## STATION STAFF.

E. H. Webster, B. Agr., M. S., *Dir.*  
 J. T. Willard, D. Sc., *V. Dir., Chem.*  
 H. F. Roberts, A. B., M. S., *Bot.*  
 Albert Dickens, M. S., *Hort.*  
 F. S. Schoenleber, M. S. A., D. V. S., M. D., *Vet.*  
 H. J. Waters, B. S. A., *in charge of Animal Husb.*  
 T. J. Headlee, Ph. D., *Ent., Zool.*  
 W. M. Jardine, B. S. A., *Agron.*  
 L. D. Bushnell, B. S., *in charge of Bact.*  
 O. E. Reed,<sup>1</sup> M. S. A., *Dairy Husb.*  
 P. N. Flint, M. S., *Animal Husb. (Expt. Feed.).*  
 C. A. Scott, B. S. A., *For.*  
 L. A. Fitz, B. S., *Milling Indus.*  
 L. E. Call, B. S. A., *Soils.*  
 W. A. Lippincott, A. B., B. S. A., *Poultry Husb.*  
 J. G. Lill, M. S., *Asst. in Soils.*  
 C. F. Chase, B. S., *Asst. in Farm Mech.*  
 B. S. Wilson, B. S., *Foreman Expt. Farm.*  
 J. C. Christensen, *Financial Sec.*  
 C. W. McCampbell, B. S., D. V. M., *Asst. Animal Husb.*  
 T. G. Paterson, B. S. A., *Asst. Animal Husb. (Expt. Feed.).*  
 T. R. H. Wright, B. S. A., *Asst. Animal Nutr.*  
 Otto Maurer, *Asst. in Egg Invest.*  
 E. C. Miller, Ph. D., *Asst. Plant Physiol.*  
 N. E. Stevens, Ph. D., *Asst. Plant Path.*  
 D. E. Lewis, B. S., *Asst. Hort.*  
 D. H. Rose, A. M., *Asst. Bot.*  
 C. O. Swanson, M. A., *First Asst. Chem.*  
 J. W. Calvin, B. S., *Asst. in Animal Nutr.*  
 R. C. Wiley, B. S., *Asst. Chem. (Feed.).*  
 A. W. Rudnick, B. S., *Asst. in Dairying.*  
 J. B. Fitch, B. S., *Asst. in Dairying.*

C. E. Millar, M. S., *Asst. in Soil Anal.*  
 R. I. Throckmorton, B. S., *Asst. in Soils.*  
 A. H. Leidigh, B. S., *Asst. in Farm Crops.*  
 E. G. Schafer, M. S., *Asst. in Farm Crops.*  
 C. C. Cunningham, B. S., *Asst. in Farm Crops.*  
 H. H. Laude, B. S., *Asst. in Farm Crops.*  
 H. J. C. Umberger, B. S., *Asst. in Farm Crops.*  
 T. E. Schreiner, *Supt. Poultry Husb.*  
 Leslie Ross, *Herdsmen.*  
 Archie Kane, *Dairy Herdsman.*  
 G. A. Dean, M. S., *Asst. Ent.*  
 L. M. Pears, M. S., *Asst. Ent.*  
 F. B. Milliken, B. S., *Asst. Ent.*  
 R. K. Nabours, Ph. D., *Asst. Zool.*  
 O. W. Hunter, M. S., *Asst. Bact.*  
 J. G. Jackley, D. V. M., *Asst. Bact.*  
 E. F. Kubin, D. V. M., *Asst. Vet.*  
 J. B. Gingery, D. V. M., *Asst. Vet.*  
 L. B. Barber, D. V. M., *Asst. Vet.*  
 R. R. Dykstra, D. V. M., *Asst. Vet.*  
 J. H. Burt, V. S., D. V. M., *Asst. in Vet. Med.*  
 T. P. Haslam, M. S., *Asst. in Vet. Sci.*  
 L. W. Goss,<sup>1</sup> D. V. M., *Asst. in Histology.*  
 A. M. Ten Eyck, B. Agr., M. S., *Supt. Ft. Hays Branch Expt. Sta., Hays.*  
 Geo. K. Helder, *Asst. Supt. Ft. Hays Branch Expt. Sta., Hays.*  
 A. L. Hallsted, B. S., *Asst. in Dry Farming, Ft. Hays Branch Expt. Sta., Hays.*  
 E. F. Chilcott, *Supt. Garden City Branch Expt. Sta., Garden City.*  
 G. D. Noel, B. S., *Foreman Dodge City For. Sta., Dodge City.*  
 F. J. Turner, *Foreman Ogallah For. Sta., Ogallah.*

<sup>1</sup> On leave.

## KENTUCKY.

## The College of Agriculture of the State University, Lexington.

## GOVERNING BOARD.

Board of trustees: Gov. Augustus E. Willson (*ex officio*), *Frankfort*; Henry S. Barker\* (*ex officio*), *Lexington*; Thos. I. Edelen, *Frankfort*; Ellsworth Regenstein (*Supt. of Public Instr., ex officio*), *Frankfort*; R. C. Stoll,\* *Lexington*; Cassius M. Clay, *Paris*; R. N. Wathen, *Lebanon*; Chas. B. Nichols,\* *Lexington*; T. Carpenter, *Scottsville*; W. H. Cox, *Maysville*; D. P. Smith, *Cadiz*; C. B. Terrell, *Bedford*; H. Davies, *Kensec*; L. L. Walker,\* *Lancaster*; J. W. Turner, *Paintsville*; Jas. K. Patterson, *Lexington*; Wm. T. Lafferty (*Sec.*), *Lexington*.

## COURSES OF STUDY.

The college of agriculture offers a 4-year course leading to the degree of B. S. Agr., a 2-year course, a farmers' week, which includes a course in home economics for farmers' wives and daughters and a boys' course in corn and seeds, and a short 10-week winter course.

## BOARD OF INSTRUCTION.

Henry S. Barker, LL. D., *President of the University.*

James G. White, A. M., *Math.*  
 Melville A. Scovell,\* Ph. D., *Dir. College of Agr.*  
 Clarence W. Matthews, B. S., *Hort., Bot.*  
 Harrison Garman, *Ent., Plant Breeding, Zool.*  
 Alfred M. Peter, M. S., *Soil Tech.*  
 Henry E. Curtis, M. S., *Fert.*  
 James W. Pryor, M. D., *Anat., Physiol.*  
 Merry L. Pence, M. S., *Phys.*  
 Arthur McQ. Miller, A. M., *Geol.*  
 Alexander St. C. MacKenzie, M. A., *Engl. and Logic.*  
 Robt. M. Allen, A. B., *Foods.*  
 James O. LaBach, M. S., *Chem. (Foods).*  
 Job B. Turner, B. Ped., LL. B., *Feeds.*  
 Alfred C. Zembrod, A. M., *French, German.*  
 Franklin E. Tuttle, Ph. D., *Chem.*  
 Walter E. Rowe, M. S., C. E., *Civil Engin.*  
 Wm. T. Lafferty, A. M., *Farm Law.*  
 Ralph N. Maxson, Ph. D., *Chem.*  
 John J. Hooper, M. S. A., *Dairy Husb. and Horse Husb.*  
 Edwin S. Good, M. S., *Animal Husb.*  
 George Roberts, B. Ped., M. S., *Agron.*  
 Linwood A. Brown, Ph. C., *Phar. D., Chem. (Insecticides, Drugs).*  
 Daniel J. Healy, M. D. C. M., *Bact.*  
 Frank M. Surface, Ph. D., *Biol.*  
 George H. Noyes, *Met.*  
 Joseph H. Kastle, Ph. D., *Chem.*  
 Hugh M. Kelly, Lieut., U. S. A., *Mil. Sci. and Tactics.*  
 W. W. H. Mustaine, B. S., *Phys. Training.*  
 Columbus R. Melcher, A. M., LL. B., (*Assoc.*) *French, German.*  
 Joseph M. Davis, B. S., A. M., (*Assoc.*) *Math.*  
 Wm. J. Carrel, B. S., C. E., (*Assoc.*) *Civil Engin.*

Elizabeth S. Kinhead, *Lect. in Engl. Lit.*  
 Thompson R. Bryant, B. S. Agr., (*Asst.*) *Ext. Work.*  
 Wm. Snyder Webb, M. S., (*Asst.*) *Phys.*  
 Alfred H. Gilbert, M. S., (*Asst.*) *Bot.*  
 Joseph E. Tuthill, Ph. D., (*Asst.*) *Hist., Polit. Econ.*  
 Edmund Kinney, B. S. Agr., (*Asst.*) *Agron.*  
 Robert C. Terrell, C. E., (*Asst.*) *Rural and Highway Engin.*  
 Edward F. Farquhar, A. M., (*Asst.*) *Engl.*  
 Mary LeG. Didlake, M. S., (*Asst.*) *Ent., Bot.*  
 Saxe D. Averitt, M. S., (*Asst.*) *Agr. Chem.*  
 Oliver M. Shedd, M. S., (*Asst.*) *Aggr. Chem.*  
 Howell D. Spears, M. S., (*Asst.*) *Chem. (Coml. Feeds).*  
 Elijah L. Rees, C. E., (*Asst.*) *Math.*  
 Sue D. McCann, M. S., (*Asst.*) *Ent., Zool.*  
 Earle C. Vaughn, A. B., (*Asst.*) *Ent., Bot.*  
 Wm. Rodes, jr., B. S., (*Asst.*) *Chem.*  
 Benj. D. Wilson, B. S., (*Asst.*) *Chem.*  
 Robert Graham, D. V. M., (*Asst.*) *Vet. Sci.*  
 L. S. Corbett, B. S., (*Asst.*) *Animal Husb.*  
 John W. Nutter, (*Asst.*) *Dairying.*  
 H. R. Niswonger, B. S., M. A., (*Asst.*) *Ent., Bot.; Nursery Insp.*  
 H. H. Jewett, M. A., (*Asst.*) *Research Ent.*  
 Aubyn Chinn, A. B., *Instr. Dom. Sci.*  
 A. Early Ewan, B. S., *Farm Supt.*  
 John W. McFarlin, B. S., (*Franklin*), *Food Insp.*  
 John I. Claybrook, *Feed Insp.*  
 Chilton S. Porter, A. B., Ph. G., *Drug Insp.*  
 Benj. F. Scherffius,<sup>1</sup> B. S., *Plant Breeding.*  
 Walter R. Pinnell, M. D., *Food Insp.*  
 Wm. C. Matthews, A. B., *Artist.*

<sup>1</sup> In cooperation with the U. S. Department of Agriculture.



**Kentucky Agricultural Experiment Station, Lexington.**

Department of the State University, under the control of the board of trustees.

## STATION STAFF.

M. A. Scovell,\* Ph. D., *Dir.*; *Chem.*  
 A. M. Peter, M. S., *Chief Chem.*; *Head of Chem. Div.*  
 H. E. Curtis, M. S., *Chief Chem.*; *Head of Fert. Div.*  
 Harrison Garman, *Ent.*, *Bot.*; *Head of Ent. and Bot. Div.*  
 George Roberts, B. Ped., M. S., *Agron.*; *Head of Agr. Div.*  
 R. M. Allen, A. B., *Head of Food and Drug Div.*  
 J. D. Turner, B. Ped., LL. B., *Head of Feed Div.*  
 J. O. LaBach, M. S., *Chief Chem.* (*Food and Drug Div.*).  
 J. H. Kastle, Ph. D., *Research Chem.*; *Head Div. of Chem. Research.*  
 Mary LeG. Didlake, M. S., *Asst. Ent.*, *Bot.*  
 S. D. Averitt, M. S., *Chem.*  
 O. M. Shedd, M. S., *Chem.*  
 D. J. Healy, M. D. C. M., *Bact.* (*Food and Drug Div.*).  
 E. C. Vaughn, A. B., *Asst. Ent.*, *Bot.*  
 H. H. Jewett, M. A., *Asst. Research Ent.*  
 H. R. Niswonger, B. S., M. A., *Asst. Nursery Insp.* (*Div.*, *Ent. and Bot.*).

E. S. Good, M. S., *Head of Animal Husb. Div.*  
 J. W. Nutter, *Asst. in Dairying* (*Animal Husb. Div.*).  
 Robert Graham, D. V. M., *Vet. Sci.* (*Animal Husb. Div.*).  
 Frank M. Surface, Ph. D., *Research Biol.* (*Animal Husb. Div.*).  
 L. S. Corbett, B. S., *Asst. Animal Husb.*  
 H. D. Spears, M. S., *Chem.* (*Feed Div.*).  
 J. W. McFarlin, B. S., (*Franklin*), *Food Insp.*  
 B. F. Scherffius,<sup>1</sup> B. S., *Expert.*  
 Edmund Kinney, B. S. Agr., *Asst. Agron.*  
 T. R. Bryant, B. S. Agr., *Ext. Work.*  
 B. D. Wilson, B. S., *Asst. Chem.* (*Fert. Div.*).  
 Wm. Rodes, jr., B. S., *Asst. Chem.* (*Fert. Div.*).  
 W. C. Matthews, A. B., *Artist.*  
 L. A. Brown, Ph. C., *Phar. D.*, *Chem.* (*Food and Drug Div.*).  
 A. E. Ewan, B. S., *Asst. to Agron.*  
 John I. Claybrooke, *Feed Insp.*  
 W. R. Pinnell, M. D., *Food Insp.*  
 C. S. Porter, A. B., Ph. G., *Drug Insp.*

**The Kentucky Normal and Industrial Institute for Colored Persons, Frankfort.**

## GOVERNING BOARD.

Board of regents: Ellsworth Regenstein (*Chair.*, *ex officio*; *Supt. Public Instr.*), *Frankfort*; E. E. Hume, *Frankfort*; J. C. Mastin, *Frankfort*; E. E. Underwood, *Frankfort*; J. S. Hathaway (*ex officio*), *Frankfort*.

## COURSES OF STUDY.

The courses of study are teachers' (four years), normal and preparatory (three years each), business (two years), music, and manual training courses in agriculture, mechanical drawing, printing, carpentry, blacksmithing, wheelwrighting, domestic science, and dressmaking. The school grants State diplomas to normal graduates.

## BOARD OF INSTRUCTION.

James S. Hathaway, A. M., M. D., *President*; *Lecturer on Ethics and Economics.*

Ernest E. Reed, *Dean*; *Mathematics.*  
 Harriet V. Tucker, A. B., *Lat.*, *Lang.*, *Lit.*  
 S. F. Collins, A. B., *Nat. Sci.*, *Sci. Agr.*  
 H. C. Russell, A. B., *Engl.*, *Hist.*  
 P. W. L. Jones, *Prin. Prep. Dept.*  
 Lulu L. Coleman, *Instr. Prep. Dept.*; *Libr.*  
 Burnice Lee, *Dir. Music.*  
 Mrs. Annie T. Oneil, *Instr. Sew.*

Mrs. Addie G. Smith, *Matron*; *Instr. Sci. Cooking.*  
 Mrs. W. W. Wilson, *Instr. Model School.*  
 John H. Rives, *Dir. Printing.*  
 James L. Lawson, *Dir. Mech.*, *Manual Training.*  
 Charles Jones, *Farm Foreman.*  
 Julia G. Young, *Sec. to Pres.*; *Dir. Business Dept.*  
 J. H. Lyons, *Instr. Elect. Engin.*

## LOUISIANA.

**Louisiana State University and Agricultural and Mechanical College, Baton Rouge.**

## GOVERNING BOARD.

Board of supervisors: Gov. J. Y. Sanders (*ex officio Pres.*), *Baton Rouge*; Henry L. Fuqua\* (*V. Pres.*), *Baton Rouge*; S. McC. Lawrason, *St. Francisville*; Hon. T. H. Harris (*ex officio Supt. Public Education*), *Baton Rouge*; Thos. D. Boyd\* (*ex officio Pres. State University*), *Baton Rouge*; A. T. Prescott (*Sec.*), *Baton Rouge*; Roger P. Swire (*Treas.*), *Baton Rouge*; H. S. Chenet, *New Orleans*; C. C. Davenport, *Mer Rouge*; George K. Pratt, *New Orleans*; George Hill, *Port Allen*; J. R. Thornton, *Alexandria*; G. H. Clinton, *St. Joseph*; J. W. Sanders, *New Iberia*; W. M. Lyles, *Leesville*; J. F. Harbert, *Jennings*; J. L. Adams, *Monroe*.

<sup>1</sup> Assigned by the U. S. Department of Agriculture.

## COURSES OF STUDY.

In addition to the courses of study in the college of arts and sciences and the teachers' college, there are the three-year course of the school of agriculture, and the four-year course of the college of agriculture (B. S.); agricultural extension courses; four-year courses in civil engineering, chemical engineering, electrical engineering, and mechanical engineering (B. S.), and a five-year sugar engineering course (B. S.). Short winter courses (two weeks) are given in agriculture, dairying, animal husbandry, economic botany, and entomology. A summer school for teachers and others (nine weeks) includes full courses in agriculture.

## BOARD OF INSTRUCTION.

Thomas D. Boyd, A. M., LL. D., *President*.

James W. Nicholson, A. M., LL. D., *Dean College of Arts and Sciences; Math.*

Edward L. Scott, A. M., *Ancient Lang.*

Charles E. Coates, Ph. D., *Chem.; Dean Audubon Sugar School.*

William R. Dodson, A. B., B. S., *Dean College of Agr.; Agr.*

Thomas W. Atkinson, B. S., C. E., *Dean College of Engin.; Phys., Elect. Engin.*

Charles H. Stumberg, A. M., *German.*

William H. Dalrymple, M. R. C. V. S., *Vet. Sci.*

Boykin W. Pegues, B. S., *Civil Engin.*

Arthur T. Prescott, M. A., *Polit. Sci.*

Robert L. Himes, *Commerce.*

Albert M. Herget, *Mech. Arts, Draw.*

William A. Read, Ph. D., *Engl. Lang. and Lit.*

Eugene W. Kerr, M. E., *Mech. Engin.*

Walter L. Fleming, Ph. D., *Hist.*

Campbell B. Hodges, Lieut., U. S. A., *Mil. Sci.*

W. G. Williams, J. D., B. C. L., *Law.*

Robert L. Tullis, LL. B., *Civil Law and Louisiana Jurisprudence; Actg. Dean Law School.*

Alexander B. Coffey, A. M., M. S. D., *Philos., Ed.; Dean Teachers' College.*

Albert G. Reed, Ph. D., *Engl. Lit.*

Hugh M. Blain, Ph. D., *Engl.*

E. S. Richardson, *Dir. Agr. Ext.*

James F. Broussard, A. M., *French.*

Thomas W. Hughes, LL. M., *Law.*

Elbert L. Jordan, B. S., *Animal Indus.*

Albert F. Kidder, B. S., *Agron.*

E. B. Doran, B. S., (*Asst.*) *Agron.*

William H. Gates, B. A., *Zool., Ent.*

Albert T. Bell, B. S., A. M., *Bot., Bact.*

Jordan G. Lee, B. S., *For., Hort.*

Leo M. Favrot, B. S., *Secondary Ed.*

Delmar T. Powers, A. M., (*Assoc.*) *Ed.*

John Q. Adams, *Public Speaking.*

William O. Scroggs, S. M., (*Assoc.*) *Hist., Econ.*

Inez Mortland, B. L. S., *Libr.*

Samuel T. Sanders, A. B., (*Asst.*) *Math.*

Linton L. Cooper, B. S., (*Asst.*) *Mech. Arts, Draw.*

Raoul L. Menville, B. S., (*Asst.*) *Chem.*

Allan F. Odell, D. Sc. (*Asst.*) *Chem.*

John F. Welch, B. S., (*Asst.*) *Math.*

D. V. Guthrie, (*Asst.*) *Phys.*

William B. Clarke, *Dir. Music.*

W. H. Balis, B. S., *Asst. Dir. Agr. Ext.*

James E. Halligan, B. S., *Mgr. Athletics.*

J. K. Dwyer, *Dir. Athletics.*

Mercedes Garig, *Instr. Engl.*

Niels F. Peterson, B. A., *Instr. Bot.*

Antonio Guell, M. S., E. E., *Instr. Mech. Engin.*

Anne Beale, *Asst. Libr.*

Aurelio R. Guell, B. S., *Asst. in Spanish.*

George H. Flowerday, *Asst. in Commerce.*

Mollie M. Kearney, *Asst. in Lat.*

Louise Garig, B. A., *Asst. in Engl.*

Durand F. Woods, B. S., *Asst. in Civil Engin.*

Ruby C. Calloway, *Asst. in Zool.*

C. H. Christman, *Asst. in Bot.*

**No. 1. Sugar Experiment Station, Audubon Park, New Orleans.**

**No. 2. State Experiment Station, Baton Rouge.**

**No. 3. North Louisiana Experiment Station, Calhoun.**

**No. 4. Rice Experiment Station, Crowley.**

Department of Louisiana State University and Agricultural and Mechanical College

## GOVERNING BOARD.

State board of agriculture and immigration: Gov. J. Y. Sanders (*Pres. ex officio*), *Baton Rouge*; Henry L. Fuqua (*V. Pres. ex officio*), *Baton Rouge*; E. O. Bruner (*Comr. of Agr. ex officio*), *Baton Rouge*; Thos. D. Boyd (*Pres. State Univ., ex officio*), *Baton Rouge*; W. R. Dodson (*Dir. Expt. Stas.*), *Baton Rouge*; J. J. Henderson, *Lagan*; Henry Gerac, *Lafayette*; J. T. Cole, *Monroe*; R. E. Thompson, *Wilson*; J. D. Marks, *Crowley*; J. E. Bullard, *Belmont*; R. S. Moore, *Naomi*.

## STATION STAFF.

Sugar Experiment Station, Audubon Park, New Orleans.

W. R. Dodson, A. B., B. S. (*Baton Rouge*), *Dir.*

S. Geo. Chiquelin, *Asst. Dir.*

W. E. Cross, Ph. D., *Chem.*

Wm. L. Owen, B. S. A., *Bact.*

W. G. Taggart, B. S., *Asst. Chem.*

W. F. Terral, *Farm Mgr.*

J. K. McHugh, *Sec.*

State Experiment Station, *Baton Rouge*.

W. R. Dodson, A. B., B. S., <i>Dir.</i>	E. S. Tucker, <sup>1</sup> <i>Assoc. Ent.</i>
W. H. Dalrymple, M. R. C. V. S., <i>Vet.</i>	A. P. Kerr, M. S., <i>Asst. Chem.</i>
George L. Tiebout, B. S., <i>Hort.</i> ; <i>in charge of Truck Farm.</i>	Rene Baus, B. S., <i>Asst. Chem.</i>
Claude W. Edgerton, Ph. D., <i>Plant Path.</i>	R. G. Fuller, B. S., <i>Asst. Chem.</i>
J. B. Garrett, B. S., <i>Ent.</i>	G. D. Cain, B. S., <i>Asst. Chem.</i>
R. W. Moreland, B. S., <i>Asst. Ent.</i>	J. M. Jennings, B. S., <i>Asst. Chem.</i>
Jas. E. Halligan, B. S., <i>Chem.</i>	S. Byall, B. S., <i>Asst. Chem.</i>
E. W. Kerr, M. E., <i>Mech. Engin.</i>	R. P. Swire, B. A., <i>Treas.</i>
Harry Morris, D. V. M., <i>Animal Path.</i>	F. S. Craig, <i>Sec.</i>
C. C. Moreland, B. S., <i>Asst. Plant Path.</i>	Walter McClendon, <i>Farm Mgr.</i>
J. M. Moss, <sup>1</sup> <i>In charge of Seed Testing Lab.</i>	T. J. Weaver, <i>Gard.</i>
	C. Henry Staples, B. S., <i>in charge of Dairy.</i>

North Louisiana Experiment Station, *Calhoun*.

W. R. Dodson, A. B., B. S. ( <i>Baton Rouge</i> ), <i>Dir.</i>	E. J. Watson, <i>Hort.</i>
S. E. McClendon, B. S., <i>Asst. Dir.</i>	J. E. Bryan, <i>Farm Mgr.</i>

Rice Experiment Station, *Crowley*.

W. R. Dodson, A. B., B. S. ( <i>Baton Rouge</i> ), <i>Dir.</i>	F. C. Quereau, M. S. A., <i>Asst. Dir.</i>
--	--

Southern University and Agricultural and Mechanical College, *New Orleans*.

## GOVERNING BOARD.

Board of trustees: E. A. Carrere (*Pres.*), 806 *Perdido Street, New Orleans*; C. R. Panter (*Sec. and Treas.*), 2320 *Calhoun Street, New Orleans*; W. L. Richeson, *Board of Trade, New Orleans*; Wm. G. Napp, 5000 *Prytania Street, New Orleans*; L. Robert Rivarde, *Hennen Building, New Orleans*; F. L. Armstrong, 1636 *Arabella Street, New Orleans*; U. Marinoni, 730 *Common Street, New Orleans*; A. H. Hanemann, 2324 *Jena Street, New Orleans*; Ernest Ducongé, 5116 *Magazine Street, New Orleans*; H. H. Freeman, 5222 *Chestnut Street, New Orleans*; J. W. Cooke, *Lake Providence*; E. W. Sorrell (*V. Pres.*), *Plaquemine*.

## COURSES OF STUDY.

The university is divided into the following departments: College (the scientific course leading to B. S., and the classical to B. A.), normal school, high school (college preparatory), grammar school, department of music, and industrial department. In the industrial department there is an agricultural school, a mechanical school, a school of bookkeeping and typewriting, girls' industrial school, school of printing, dairy school, school of domestic science, and a school of wheelwrighting, the first two having two and four year courses and the dairy school a two-year course. A one-year course in agriculture is offered for students over 18 years, previous practical experience being required for admission.

## BOARD OF INSTRUCTION.

H. A. Hill, *President; Political Economy.*

F. L. St. Martin, <i>Supt. Agr. Dept.</i>	Miss M. C. Caufield, <i>Teacher in Grammar School.</i>
E. P. Barrell, <i>Chem., Phys.</i>	Mrs. A. T. Getz, <i>Teacher in Grammar School.</i>
F. F. Simms, <i>Prin. Mech. Dept.</i>	W. B. Smith, <i>Teacher in Grammar School.</i>
T. F. Crowley, <i>Engl., Ancient Lang.</i>	S. J. Green, <i>Teacher in Grammar School.</i>
W. J. Nickerson, <i>Prin. Music Dept.</i>	A. J. Bell, <i>Teacher in Grammar School.</i>
Mrs. E. P. Barrell, <i>Prin. Girls' Indus. Section.</i>	G. S. Washington, <i>Print.</i>
Mrs. L. M. Martinet, <i>Teacher in High School.</i>	L. S. Briscoe, <i>Asst. in Mech. Dept.</i>
Ernestine M. Theophile, <i>Teacher in High School.</i>	Miss L. Friedrich, <i>Asst. in Girls' Indus. Dept.</i>
Miss A. R. Wallace, <i>Teacher in High School.</i>	A. S. Weller, <i>Asst. in Agr. Dept.</i>
Lillie S. Larkins, <i>Teacher in Grammar School.</i>	

<sup>1</sup> In cooperation with the U. S. Department of Agriculture.

## MAINE.

## College of Agriculture of the University of Maine, Orono.

## GOVERNING BOARD.

Board of trustees: Wm. T. Haines (*Pres.*), Waterville; S. W. Gould,\* Skowhegan; E. J. Haskell, Westbrook; S. P. Mills, Farmington; J. M. Oak, Bangor; C. L. Jones,\* Corinna; Freeland Jones, Bangor; O. R. Wish, Portland.

## COURSES OF STUDY.

The college of agriculture offers four-year courses in agronomy, animal industry (including animal, dairy, and poultry husbandry), biology, horticulture, forestry, and domestic science (B. S.); a four-year course for teachers in elementary agriculture (B. S.); a two-year school course in agriculture; a two-year teachers' course in domestic science, and a one-year teachers' course in agriculture. Special courses are offered in agronomy, animal industry, forestry, horticulture, and domestic science; short winter courses in agronomy, animal industry, and horticulture; a six weeks' summer school for teachers, a two weeks' pastors' course, correspondence and lecture courses in agriculture, and a farmers' week are also given.

## BOARD OF INSTRUCTION.

Robert J. Alely, Ph. D., *President of the University.*

Leon S. Merrill, M. D., *Dean: Dir. of Ext. Work.*  
 Percy A. Campbell, M. S. A., *Animal Indus.*  
 William F. Schoppe, B. S., *Instr. Animal Indus.*  
 Ralph W. Redman, B. S., *Instr. Animal Indus.*  
 George E. Simmons, M. S., *Agron.*  
 William L. Slate, jr., B. S., (*Assoc.*) *Agron.*  
 Edson F. Hitchings, C. E., M. S., (*Assoc.*) *Hort.*  
 Wintha R. Palmer, B. S., *Instr. Hort.*  
 Fremont L. Russell, B. S., V. S., *Bact., Vet. Sci.*  
 Mintin A. Chryslor, Ph. D., *Biol.*  
 Alice M. Boring, Ph. D., *Instr. Zool.*  
 Harry N. Conser, M. S., M. A., *Instr. Bot.*  
 Howard M. Parshley, *Instr. Zool.*  
 John M. Briscoe, *For.*  
 Laura Comstock (*Asst.*) *Dom. Sci.*  
 Cornelia Palmer, *Instr. Dom. Sci.*  
 Ralph H. McKee, Ph. D., *Chem.*  
 Lucius H. Merrill, Sc. D., *Biol. and Agr. Chem.*  
 Charles W. Easley, Ph. D., (*Assoc.*) *Chem.*  
 Lloyd M. Burghart, B. A., *Instr. Chem.*  
 Arthur M. Buswell, B. A., *Instr. Indus. Chem.*  
 Earle O. Whittier, B. S., *Instr. Chem.*  
 E. R. Wingard, M. S., *Phys. Culture; Dir. Athletics.*  
 Charles A. Varnum, Lieut. Col., U. S. A., *Mil. Sci. and Tactics.*  
 Robert J. Sprague, Ph. D., *Econ. and Sociol.*  
 George W. Stephens, Ph. D., *Econ. and Sociol.*  
 Roland P. Gray, M. A., *Engl.*  
 Windsor P. Daggett, Ph. B., *Public Speaking.*

Guy A. Thompson, M. A., *Engl. Lit.*  
 Walter E. Prince, M. A., *Instr. Engl.*  
 Victor A. Ketcham, B. A., LL.B., *Instr. Engl.*  
 Walter L. Leighton, *Instr. Engl.*  
 Arthur J. Jones, Ph. D., *Education.*  
 Wallace Craig, Ph. D., *Philos.*  
 Garrett W. Thompson, Ph. D., *German.*  
 Robert R. Drummond, Ph. D., *Instr. German.*  
 Emile S. Samra, *Asst. in German.*  
 Jacob B. Segall, Ph. D., *Romance Lang.*  
 Andrew P. Raggio, Ph. D., (*Asst.*) *Romance Lang.*  
 Caroline Colvin, Ph. D., *Hist.*  
 James N. Hart, C. E., Sc. D., *Math., Astron.*  
 Harley R. Willard,<sup>1</sup> M. A., (*Asst.*) *Math.*  
 Truman L. Hamlin, M. A., (*Asst.*) *Math.*  
 Sherman D. Chambers, B. S., *Instr. Math.*  
 Lowell J. Reed, B. S., *Instr. Math.*  
 Charles P. Weston, C. E., M. A., *Mech. Draw.*  
 Archer L. Grover, B. S., (*Asst.*) *Draw.*  
 Walter E. Farnham, *Instr. Draw.*  
 James S. Stevens, M. S., LL.D., *Phys.*  
 Leon E. Woodman, Ph. D., (*Asst.*) *Phys.*  
 Ernest C. Drew, B. S., *Instr. Phys.*  
 Clayton Ulrey, A. B., *Instr. Phys.*  
 Arthur C. Jewett, B. S., *Mech. Engin.*  
 Winslow H. Herschel, B. A., (*Asst.*) *Mech. Engin.*  
 Charles J. Carter, *Instr. Mach. Tool Work.*  
 Everett W. Davee, *Instr. Wood and Iron Work.*  
 Ralph K. Jones, *Libr.*

## Maine Agricultural Experiment Station, Orono.

Department of the University of Maine, under the control of the board of trustees of the university.

## STATION STAFF.

Chas. D. Woods, Sc. D., *Dir.*  
 Ralph K. Jones, B. S., *Libr.*  
 Raymond Pearl, Ph. D., *Biol.*  
 Maynie R. Curtis, A. M., *Asst. Biol.*  
 Walter Anderson, *Poultryman.*  
 Lottie E. McPheters, *Computer.*  
 James M. Bartlett, M. S., *Chem.*  
 Herman H. Hanson, M. S., *Assoc. Chem.*  
 Albert G. Durgin, M. S., *Asst. Chem.*  
 Alfred K. Burke, B. S., *Asst. Chem.*  
 Harry C. Alexander, *Lab. Asst.*  
 Oskar A. Johannsen, Ph. D., *Ent.*

Edith M. Patch, Ph. D., *Assoc. Ent.*  
 Alice W. Averill, *Lab. Asst. in Ent.*  
 Walter W. Bonns, B. S. A., *Assoc. Hort.*  
 Warner J. Morse, M. S., *Plant Path.*  
 Chas. E. Lewis, Ph. D., *Assoc. Plant Path.*  
 John Summers, *Lab. Asst. in Plant Path.*  
 Wellington Sinclair, (*Monmouth*), *Highmoor Farm Supt.*  
 Royden L. Hammond, *Seed Analyst, Photog.*  
 Elmer R. Tobey, B. S., *Insp.*  
 Albert Verrill, B. S., *Insp.*  
 Edgar White, *Insp.*

<sup>1</sup> On leave.



## MARYLAND.

## Maryland Agricultural College, College Park.

## GOVERNING BOARD.

Board of trustees: *Ex officio*—Gov. Phillips Lee Goldsborough\* (Pres.), Annapolis; Wm. B. Clagett, Upper Marlboro; I. L. Straus,\* Baltimore; Murray Vandiver\* (State Treas.), Havre de Grace; A. P. Gorman, Baltimore; Hon. James Wilson, Washington, D. C. Adam Peeples, Port Deposit; Chas. H. Stanley,\* Laurel; E. Gittings Merryman, Cockeysville; Harold Walsh, Upper Falls; F. Carroll Goldsborough,\* Easton; David Seibert,\* Clear Spring; Robert Crain,\* Baltimore; Chas. A. Councilman,\* Glyndon; Robt. W. Wells, Hyattsville; John Hubert,\* Baltimore; W. Lee Carey, Berlin; Frank R. Kent, Baltimore.

## COURSES OF STUDY.

There are eight four-year courses of study, viz: Agricultural (including agronomy and animal husbandry), horticultural, general, biological, and chemical (B. S.), mechanical engineering (B. S. M. E.), civil engineering (B. S. C. E.), and electrical engineering; two-year courses in agriculture and horticulture; one-year subcollegiate course, and a 10 weeks' winter course in agriculture.

## BOARD OF INSTRUCTION.

R. W. Silvester, M. S., LL. D., President; Mathematics.

Thomas H. Spence, A. M., V. Pres.; Lang.	Herman Beckenstrater, M. S., (Assoc.) Hort.
H. B. McDonnell, M. S., M. D., Chem.; State Chem.	H. L. Crisp, (Assoc.) Mech. Engin.
W. T. L. Taliaferro, A. B., Agr.	R. H. Ruffner, B. S., (Asst.) Animal Husb.
Henry T. Harrison, A. M., in charge Prep. Dept.; (Asst.) Math.; Sec. of Faculty.	L. B. Broughton, M. S., Asst. Chem.
Samuel S. Buckley, M. S., D. V. S., Vet. Sci.	J. B. Demaree, B. S., Instr. Bot., Plant Path. (State Work).
F. B. Bomberger, B. S., A. M., Engl., Civics; Libr.	E. N. Cory, B. S., Instr. Ent., Zool. (State Work).
Charles S. Richardson, A. M., Oratory, (Asst.) Engl.; Dir. Phys. Culture.	O. G. Babcock, B. S., Instr. Ent. (State Work).
J. B. S. Norton, M. S., Veg. Path., Bot.; State Path.	Clayton C. Sauter, Instr. Mech. Engin.
T. B. Symons, M. S., Ent., Zool.; State Ent.	Cornelius Beatty, A. B., Asst. in Chem. (State Work).
T. H. Taliaferro, C. E., Ph. D., Civil Engin., Math.	T. D. Jarrell, B. S., Asst. in Chem.
Myron Creese, B. S., E. E., Phys., Elect. Engin.	A. C. Adams, B. S., Asst. in Chem. (State Work).
John S. Upham, Lieut., U. S. A., Comdt. of Cadets; Mil. Sci.	F. W. Besley, A. B., M. F., Lect. on For.; State For.
Harry Gwinner, M. E., Mech. Engin.	W. Allen Griffith, M. D., Surgeon.
	Herschel Ford, Registrar, Treas.

## Maryland Agricultural Experiment Station, College Park.

Department of Maryland Agricultural College, under the control of the board of trustees.

## STATION STAFF.

Harry J. Patterson, B. S., Dir.; Chem.	A. B. Gahan, M. S., Assoc. Ent.
S. S. Buckley, M. S., D. V. S., Path.	Roy H. Waite, B. S., Assoc. Poultryman.
J. B. S. Norton, M. S., Bot.	W. R. Ballard, B. S., Asst. Hort.
T. B. Symons, M. S., Ent. (State Work).	Thos. H. White, Gard.
Nickolas Schmitz, M. S., Agron.	E. N. Cory, B. S., Asst. Ent. (State Work).
C. O. Appleman, Ph. D., Physiol.	W. E. Hanger, B. S., Asst. Agron.
E. H. Brinkley, Farm Sup't.	Herschel Ford, Treas.

## Princess Anne Academy for Colored Persons, Princess Anne.

## GOVERNING BOARD.

Board of trustees: John F. Goucher (Pres.), Baltimore; David H. Carroll (V. Pres.), Baltimore; Jos. H. Lockerman (Sec.), Baltimore; Alcaeus Hooper (Treas.), Baltimore; John H. Nutter, Middletown, Del.; Chas. W. Baldwin, Baltimore; Alfred R. Shockey, Philadelphia, Pa.; Chas. H. Evans, Baltimore; Benj. F. Bennett, Baltimore; Thos. Ireland Elliott, Baltimore; George I. Simms, Baltimore; Stewart H. Brown, Baltimore; Henry S. Dulaney, Baltimore; Herbert S. Wilson, Upper Fairmount; Solomon T. Houston, Salisbury; John R. Keene, Baltimore; E. Walter Giles, Baltimore; John W. Brown, Baltimore; N. M. Carroll, Annapolis; Luther B. Wilson, Chattanooga, Tenn.; M. W. Clair, Washington, D. C.; Vaughan S. Collins, Port Deposit; Harry B. Dillehunt, 2448 Eutaw Place, Baltimore; Wm. P. Jackson, Salisbury.

## COURSES OF STUDY.

A two-year grammar course, a four-year academic, a four-year normal, and industrial courses in domestic science, printing, agriculture, carpentry, joinery, blacksmithing, wheelwrighting, and painting are offered.

## BOARD OF INSTRUCTION.

T. H. Kiah, A. B., *Principal*.Daniel J. Pinkett, *Math.*Woodard W. Privott, *Blacksm., Wheelwr.*L. Angella Turpeau, A. B., *Matron-Preceptress:*  
*Engl.*Crafton C. Reed, *Print.*George T. Cordery, *Carpentry, Joinery.*John E. Smith, *Phys. Sci., Agr.*John H. Jones, *Farm Foreman.*Henry J. Hitch, *Market Gard.*Samuel S. Taylor, *Lat., Ed.*Mamie M. Turner, *Engl., Pract. Ed., Critic Teacher.*

## MASSACHUSETTS.

Massachusetts Agricultural College, *Amherst.*

## GOVERNING BOARD.

Board of trustees: Gov. Eugene N. Foss (*ex officio Pres.*), *Boston*; K. L. Butterfield\* (*ex officio*), *Amherst*; David Snedden (*State Comr. of Ed., ex officio*), *Boston*; J. L. Ellsworth\* (*Sec. Board of Agr., ex officio Sec.*), *Boston*; N. I. Bowditch, *Framingham*; Wm. Wheeler, *Concord*; A. G. Pollard\*, *Lowell*; C. A. Gleason (*V. Pres., Auditor*), *New Braintree*; Frank Gerrett, *Greenfield*; Harold L. Frost\*, *Arlington*; C. H. Preston\*, *Danvers*; Davis R. Dewey, *Mass. Inst. of Tech., Boston*; M. F. Dickinson, *53 State Street, Boston*; Wm. H. Bowker, *Concord*; G. H. Ellis, *West Newton*; E. D. Howe, *Marlboro*; Frank A. Hosmer, *Amherst*; C. E. Ward\*, *Buckland*; Fred C. Kenney (*Treas.*), *Amherst*.

## COURSES OF STUDY.

The collegiate course of study requires four years and leads to the degree of B. S. Graduate courses short winter courses in dairying, agriculture, horticulture, floriculture, market gardening, veterinary science, poultry management, and bee keeping, and a farmers' week are provided.

## BOARD OF INSTRUCTION.

Kenyon L. Butterfield, A.M., LL.D., *President*; *Head of Division of Rural Social Science.*George F. Mills, A. M., *Dean of College; Lat., Lit.*  
Charles F. Fernald, Ph. D., *Hon. Dir. of Graduate School.*William P. Brooks, Ph. D., *Lect. on Soil Fert.*William D. Hurd, B. S., M. Agr., *Dir. Ext. Work.*Frank A. Waugh, M. S., *Head Div. of Hort.; Land-*  
*scape Gard.*James A. Foord, M. S., *Head Div. of Agr.; Farm*  
*Administration.*Robert J. Sprague, Ph. D., *Head Div. of Human-*  
*ities; Econ. and Sociol.*James B. Paige, B. S., D. V. S., *Chair. Div. of Sci.;*  
*Vet. Sci.*Joseph B. Lindsey, Ph.D., *Chem.*Charles Wellington, Ph.D., *Chem.*George E. Stone, Ph. D., *Bot.*Philip B. Hasbrouck, B. S., *Phys.; Registrar.*John E. Ostrander, A. M., C. E., *Math., Civil Engin.*Henry T. Fernald, Ph. D., *Ent.; Actg. Dir. of Grad-*  
*uate School.*George C. Martin, C. E., Captain, U. S. A., *Mil. Sci.*  
*and Tactics.*Edward A. White, B. S., *Flor.*William R. Hart, A. M., *Agr. Ed.*Fred C. Sears, M. S., *Pomol.*Fred C. Kenney, *Treas.*Robert W. Neal, A. M., (*Assoc.*) *Engl.*Joseph S. Chamberlain, Ph. D., (*Assoc.*) *Org. and*  
*Agr. Chem.*William P. B. Lockwood, B. S. Agr., (*Assoc.*) *Dairy-*  
*ing.*Elmer K. Eyerly, A. M., (*Assoc.*) *Rural Sociol.*Fredk. F. Moon, A. B., M. F., (*Assoc.*) *For.*John A. McLean, A. B., B. S. Agr., (*Assoc.*) *A Animal*  
*Husb.*John C. Graham, B. S., (*Assoc.*) *Poultry Husb.*Guy C. Crampton, Ph. D., (*Assoc.*) *Ent.*S. Francis Howard, M. S., (*Asst.*) *Chem.*A. Vincent Osmun, M. S., (*Asst.*) *Bot.*Sidney B. Haskell, B. S., (*Asst.*) *Agron.*Clarence E. Gordon, Ph. D., (*Asst.*) *Zool., Geol.*Edgar L. Ashley, A. M., (*Asst.*) *German.*Anderson A. MacKimmie, A. B., (*Asst.*) *French.*Alexander E. Cance, Ph. D., (*Asst.*) *Agr. Econ.*Burton N. Gates, Ph. D., (*Asst.*) *Bee Keeping.*Edward M. Lewis, A. M., (*Asst.*) *Engl.; Asst. Dean*  
*of College.*Charles A. Peters, Ph. D., (*Asst.*) *Inorg. and Soil*  
*Chem.*Curry S. Hicks, B. S., (*Asst.*) *Phys. Ed. and Hyg.*Fredk. L. Yeaw, B. S., (*Asst.*) *Market Gard.*George E. Gage, Ph. D., (*Asst.*) *Animal Path.*George N. Holcomb, A. B., S. T. B., *Lect. in Hist.*Frank W. Rane, B. Agr., M. F., *Lect. in For.*C. Robert Duncan, B. S., *Instr. Math.*Charles R. Green, B. Agr., *Libr.*Alvah J. Norman, M. S., *Ext. Instr. Pomol.*George F. E. Story, B. S., *Ext. Instr. Dairying.*Arthur K. Harrison, *Instr. Landscape Gard.*Chester A. Butman, B. S., *Instr. Phys.*Willard A. Wattles, A. M., *Instr. Engl.*William L. Harmount, A. B., *Instr. French.*Elvin L. Qualie, B. S. Agr., *Instr. Animal Husb.*William L. Machmer, A. M., *Instr. Math.*Arthur N. Julian, A. B., *Instr. German.*Howard DeF. Widger, A. B., *Instr. Engl., Public*  
*Speaking.*Willard A. Turner, Ph. B., *Asst. in Chem.*Helena Goessmann, Ph. M., *Asst. in Engl.*Samuel R. Parsons, B. S., *Asst. in Math., Mil. Sci.*Fredk. A. McLaughlin, B. S., *Asst. in Bot.*Herbert J. Baker, B. S., *Asst. in Agron.*Edwin H. Forristall, M. S., *Farm. Supl.*Charles H. White, B. S., *District Field Agt.*Ernest D. Waid, B. S. Agr., *Asst. Dir. Ext. Work.*Ralph J. Watts, B. S., *Sec. to Pres.*Albert R. Jenks, B. S., *in charge of Correspondence*  
*Courses, Ext. Dept.*

\* On leave.

**Massachusetts Agricultural Experiment Station, Amherst.**

Department of the Massachusetts Agricultural College, under the control of the board of trustees.

## STATION STAFF.

Wm. P. Brooks, Ph. D., *Dir.*; *Agr.*  
 Jos. B. Lindsey, Ph. D., *V. Dir.*; *Chem.*  
 F. C. Kenney, *Treas.*  
 Chas. R. Green, B. Agr., *Libr.*  
 Edw. B. Holland, M. S., *Assoc. Chem. in charge Research Div.*  
 F. W. Morse, M. S., *Research Chem.*  
 Henri D. Haskins, B. S., *Chem. in charge Fert. Sect.*  
 Philip H. Smith, B. S., *Chem. in charge Feed and Dairy Section.*  
 Lowell S. Walker, B. S., *Asst. Chem.*  
 Jas. C. Reed, B. S., *Asst. Chem.*  
 R. W. Ruprecht, B. S., *Asst. Chem.*  
 James T. Howard, *Insp.*  
 Harry J. Allen, *Lab. Asst. in Chem.*  
 Jas. R. Alcock, *Asst. in Animal Nutr.*

H. J. Franklin, Ph. D., *In charge of Cranberry Invest.*  
 Edwin F. Gaskill, B. S., *Asst. Agr.*  
 F. A. Waugh, M. S., *Hort.*  
 F. C. Sears, M. S., *Pomol.*  
 Jacob K. Shaw, Ph. D., *Asst. Hort.*  
 David W. Anderson, B. S., *Asst. in Hort.*  
 G. E. Stone, Ph. D., *Bot.*, *Veg. Path.*  
 Geo. H. Chapman, M. S., *Asst. Bot.*  
 Edw. A. Larrabee, B. S., *Asst. Bot.*  
 H. T. Fernald, Ph. D., *Ent.*  
 B. N. Gates, Ph. D., *Apiarist.*  
 A. I. Bourne, B. A., *Asst. Ent.*  
 Jas. B. Paige, B. S., D. V. S., *Vet.*  
 J. E. Ostrander, A. M., C. E., *Met.*  
 R. N. Hallowell, *Observer.*  
 H. J. Baker, B. S., *Sec. to Dir.*

## MICHIGAN.

**Michigan Agricultural College, East Lansing**

## GOVERNING BOARD.

State board of agriculture: R. D. Graham (*Pres.*), *Grand Rapids*; A. J. Doherty, *R. F. D. 4, Clare*; I. R. Waterbury, *Highland*; W. H. Wallace, *Saginaw*; J. L. Snyder (*Pres. College, ex officio*), *East Lansing*; L. L. Wright (*Supt. of Public Instr. ex officio*), *Lansing*; Jason Woodman, *Paw Paw*; John W. Beaumont, *1124 Ford Building, Detroit*; A. M. Brown (*Sec.*), *East Lansing*; B. F. Davis (*Treas.*), *Lansing*.

## COURSES OF STUDY.

There are five four-year courses of study, viz: Agricultural, engineering, forestry, home economics (B. S.), and veterinary science (D. V. S.); short courses in general agriculture, poultry culture, cheese making, dairying and horticulture; post-graduate and preparatory courses; a special one-year course for agricultural teachers; a college extension reading course; summer courses in forestry; a four weeks' summer course in practical agriculture; and special one-week farmers' courses are offered in corn and grain production, poultry raising, and dairying.

## BOARD OF INSTRUCTION.

Jonathan L. Snyder, Ph. D., LL. D., *President.*

William J. Beal, Ph. D., D. Sc., *Bot.*, *Emeritus.*  
 L. R. Taft, M. S., *Supt. of Farmers' Insts.*; *State Insp. Orchards and Nurseries.*  
 Herman K. Vedder, C. E., *Civil Engin.*  
 Walter B. Barrows, B. S., *Zool.*, *Physiol.*; *Curator Gen. Mus.*  
 Frank S. Kedzie, M. S., *Chem.*  
 Maude Gilchrist, A. M., *Dean of Home Econ.*  
 Charles E. Marshall, Ph. D., *Bact.*, *Hyg.*  
 Robert S. Shaw, B. S. A., *Dean of Agr.*  
 Joseph A. Jeffery, B. S. A., *Soils, Soil Phys.*  
 A. R. Sawyer, B. S., E. E., *Phys.*, *Elect. Engin.*  
 Thomas C. Blaisdell, Ph. D., *Engl. Lit.*, *Mod. Lang.*  
 Wilbur O. Hedrick, Ph. D., *Hist.*, *Econ.*  
 Rufus H. Pettit, B. S. A., *Ent.*  
 George W. Bissell, M. E., *Dean of Engin.: Mech. Engin.*  
 J. Fred Baker, M. F., *For.*  
 Walter H. French, M. Pd., *Agr. Ed.*  
 Victor T. Wilson, M. E., *Draw. and Design.*  
 Harry J. Eustace, B. S., *Hort.*  
 John F. Macklin, *Phys. Culture*; *Dir. Athletics.*  
 Warren Babcock, B. S., *Math.*; *Sec. of Faculty.*  
 Anton C. Crow, Lieut., U. S. A., *Mil. Sci.*

Vernon M. Shoesmith, B. S., *Farm Crops.*  
 Ernst A. Bessey, Ph. D., *Bot.*  
 Richard P. Lyman, B. S., D. V. M., *Dean of Vet. Sci.*  
 Agnes Hunt, B. S., *Dom. Sci.*  
 A. C. Anderson, B. S., *Dairy Husb.*  
 E. H. Ryder, M. A., (*Assoc.*) *Hist.*, *Econ.*  
 E. S. King, (*Asst.*) *Engl.*  
 Chace Newman, (*Asst.*) *Draw.*  
 J. J. Myers, B. S., (*Asst.*) *Zool.*  
 Ralph C. Huston, M. S., (*Asst.*) *Chem.*  
 J. A. Polson, B. S., (*Asst.*) *Mech. Engin.*  
 C. P. Halligan, B. S., (*Asst.*) *Hort.*  
 Otto Rahn, Ph. D., (*Asst.*) *Bact.*  
 Arthur J. Clark, A. B., (*Asst.*) *Chem.*; *Dir. of Band*  
 W. L. Lodge, M. A., B. S., (*Asst.*) *Phys.*  
 F. H. Sanford, B. S., (*Asst.*) *For.*  
 C. A. Mellick, B. C. E., (*Asst.*) *Civil Engin.*  
 Richard De Zeeuw, Ph. D., (*Asst.*) *Bot.*  
 E. J. Kunze, B. S., M. E., (*Asst.*) *Mech. Engin.*  
 W. B. Wendt, B. C. E., (*Asst.*) *Civil Engin.*  
 F. W. Chamberlain, B. S., D. V. M., (*Asst.*) *Comp. Anat.*  
 J. S. McDaniel, D. Sc., D. V. S., (*Asst.*) *Surg.*



- Chas. W. Chapman, B. S., *(Asst.) Phys.*  
 Thomas Gunson, *Instr. Hort.; Supt. Grounds.*  
 Rufus P. Hibbard, Ph. D., *Instr. Plant Physiol.*  
 G. Herbert Coons, A. M., *Instr. Plant Path.*  
 George W. Hood, B. S., *Instr. Hort.*  
 Caroline L. Holt, *Instr. Draw.*  
 Louise Freyhofer, B. S., *Instr. Music.*  
 Norma L. Gilchrist, A. B., *Instr. Engl., German.*  
 Mrs. Minnie Hendrick, A. B., *Instr. Hist.*  
 H. W. Newhall, B. S., *Instr. Dairy.*  
 W. A. Robinson, A. B., S. T. B., *Instr. Engl.*  
 Zae L. Northrup, B. S., *Instr. Bact., Hyg.*  
 Rose M. Taylor, A. B., *Instr. Bot.*  
 Hazel Berg, B. S., *Instr. Dom. Art.*  
 George A. Brown, B. S., *Instr. Animal Husb.*  
 Joseph C. Bock, Ch. E., *Instr. Chem.*  
 Herman Hensel, A. B., *Instr. Engl., German.*  
 Wm. E. Laycock, *Instr. Phys.*  
 C. S. Dunford, A. B., *Instr. Hist.*  
 Mrs. Lillian L. Peppard, *Instr. Dom. Art.*  
 Helen I. Michaelides, *Instr. French.*  
 Isabel P. Snelgrove, *Instr. Draw.*  
 B. B. Roseboom, jr., B. S., *Instr. Zool.*  
 George D. Shafer, Ph. D., *Instr. Ent.*  
 Mrs. G. A. Robson, *Instr. Engl., German.*  
 M. F. Johnson, B. S., *Instr. Math.*  
 Rachel Benham, B. S., *Instr. Bact., Hyg.*  
 Harold H. Morris, B. S., *Instr. Chem.*  
 Frederick A. Burt, B. S., *Instr. Zool.*  
 J. Oliver Linton, B. S., *Instr. Poultry Husb.*  
 C. H. Spurway, B. S., *Instr. Soil Phys.*  
 G. A. Kelsall, B. S., *Instr. Elect. Engin.*  
 Frederick W. Bentzen, B. S., *Instr. Chem.*  
 H. H. Musselman, B. S., *Instr. Farm. Mech.*  
 Stanley E. Crowe, B. A., *Instr. Math.*  
 J. E. Robertson, B. S., *Instr. Math.*  
 E. E. Beighle, B. S., *Instr. Math.*  
 E. D. Kingman, Ph. B., *Instr. Civil Engin.*  
 L. C. Emmons, B. S., A. B., *Instr. Math.*  
 K. E. Hopphan, B. S., *Instr. Math.*  
 H. S. Osler, B. S., *Instr. Zool.*  
 Eugenia I. McDaniel, A. B., *Instr. Ent.*  
 H. A. Snepp, B. S., *Instr. Math.*  
 John R. Mitchell, A. B., *Instr. Chem.*  
 R. H. Reece, B. S., *Instr. Math.*  
 Ruth F. Allen, Ph. D., *Instr. Bot.*  
 Bertha E. Thompson, A. B., *Instr. Bot.*  
 A. M. Ockerblad, B. S., in C. E., *Instr. Civil Engin.*  
 H. E. Marsh, B. S., *Instr. Civil Engin.*  
 Max D. Farmer, B. S., *Instr. Draw.*  
 E. G. Fischer, Ph. B., *Instr. German.*  
 Raymond D. Penney, *Instr. Engl.*  
 Louis B. Mayne, A. B., *Instr. Engl.*  
 Grace E. Stevens, B. S., *Instr. Dom. Sci.*  
 Grace L. Scott, *Instr. Music.*  
 Edith Casho, *Instr. Phys. Culture.*  
 Patrick J. Cross, *Instr. Mil. Sci.*  
 Dewey A. Seely, B. S., *Instr. Met.*  
 John Bowditch, jr., *Instr. Animal Husb.*  
 James L. Morse, *Instr. Mech. Engin.*  
 Oren L. Snow, B. S., *Instr. Phys.*  
 Roy Davis, A. B., *Instr. Zool.*  
 Irving Gilson, B. S., *Instr. For.*  
 C. Dwight Curtiss, B. S., *Instr. Civil Engin.*  
 Ralph W. Powell, B. S., *Instr. Civil Engin.*  
 W. S. Bittner, B. A., *Instr. Engl.*  
 Milton Simpson, M. A., *Instr. Engl.*  
 Roy G. Hoopingarner, B. S., *Instr. Farm Crops.*  
 Andrew Watt, *Asst. in Blacksm.*  
 E. A. Evans, *Foreman of Mach. Shop.*  
 John A. Neal, *Asst. in Mach. Shop.*  
 A. S. Smith, *Asst. in Mach. Shop.*  
 E. C. Baker, *Foreman of Foundry.*  
 A. P. Krentel, *Foreman of Wood Shop.*  
 W. R. Holmes, *Foreman of Forge Shop.*  
 Ralph S. Hudson, B. S., *Farm Foreman.*  
 Albert H. Davis, *Foreman of Grounds.*  
 W. F. Raven, *Live Stock Field Agt.*  
 O. K. White, B. S., *Hort. Field Agt.*  
 A. R. Potts, *Soils and Crops Field Agt.*  
 Mrs. Linda E. Landon, *Libr.*  
 Elizabeth Palm, B. S., *Asst. Libr.*

#### Experiment Station of Michigan Agricultural College, East Lansing.

Department of Michigan Agricultural College, under the control of the state board of agriculture.

#### STATION STAFF.

- Robert S. Shaw, B. S. A., *Dir.*  
 C. E. Marshall, Ph. D., *Sci. and V. Dir.; Bact.*  
 R. H. Pettit, B. S. A., *Ent.*  
 A. J. Patten, B. S., *Chem.*  
 J. A. Jeffery, B. S. A., *Soil Physicist.*  
 H. J. Eustace, B. S., *Hort.*  
 V. M. Shoesmith, B. S., *Farm Crops Expt.*  
 A. C. Anderson, B. S., *Dairy Husb.*  
 J. F. Baker, M. F., *For.*  
 E. A. Bessey, Ph. D., *Bot.*  
 C. P. Halligan, B. S., *Asst. Hort.*  
 Otto Rahn, Ph. D., *Asst. Bact.*  
 G. A. Brown, B. S., *Asst. Animal Husb.*  
 G. D. Shafer, Ph. D., *Research Asst. in Ent.*  
 W. G. Giltner, D. V. M., M. S., *Research Asst. in Bact.*  
 F. A. Spragg, M. S., *Research Asst. in Plant Breed-  
ing.*  
 R. P. Hibbard, Ph. D., *Research Asst. in Plant  
Physiol.*  
 C. W. Brown, B. S., *Research Asst. in Bact.*  
 C. S. Robinson, M. S., A. B., *Research Asst. in  
Chem.*  
 F. H. Van Suchtelen, Ph. D., *Research Asst. in  
Bact.*  
 George Bouyoucos, Ph. D., *Research Asst. in Soil  
Phys.*  
 G. Herbert Coons, A. M., *Research Asst. in Plant  
Path.*  
 Zac L. Northrup, B. S., *Asst. in Bact.*  
 Miss L. M. Smith, Ph. B., *Asst. in Bact.*  
 Eugenia I. McDaniel, A. B., *Asst. in Ent.*  
 Mrs. Linda E. Landon, *Libr.*  
 A. M. Brown, A. B., *Sec.*  
 Leo M. Geismar, in charge of Substa., Chatham.  
 F. A. Wilken, in charge of Substa., South Haven.



## MINNESOTA.

College of Agriculture of the University of Minnesota, University Farm, St. Paul.

## GOVERNING BOARD.

Board of regents: John Lind (*Pres.*), *Minneapolis*; George E. Vincent (*ex officio*), *Minneapolis*; Gov. A. O. Eberhart (*ex officio*), *St. Paul*; C. G. Schulz (*State Supt. of Public Instr., ex officio*), *St. Paul*; Chas. L. Somers, *St. Paul*; A. E. Rice, *Willmar*; B. F. Nelson, *Minneapolis*; Pierce Butler, *St. Paul*; C. A. Smith, *Minneapolis*; M. M. Williams, *Little Falls*; W. J. Mayo, *Rochester*; H. B. Hovland, *Duluth*; Geo. H. Hayes, (*Sec.*), *Minneapolis*.

## COURSES OF STUDY.

The college courses require four years for completion and lead to the degrees of B. S. in agriculture, B. S. in forestry, and B. S. in home economics. Postgraduate courses lead to advanced degrees. There is also a secondary school of agriculture, with a course requiring three years of six months each for completion, a two-year course in industrial and agricultural education for the preparation of teachers for high schools, a special lecture course of four weeks for farmers, a dairy course of four weeks, and a four weeks' school of traction engineering. To secure a dairy certificate the student must have one season's practice in a creamery or cheese factory before and another after his work at the dairy school. A six weeks' summer school for teachers gives instruction in agricultural subjects, nature study, and domestic science and art.

## BOARD OF INSTRUCTION.

The College of Agriculture.

George Edgar Vincent, Ph. D., LL. D., *President of the University*.

Albert F. Woods, M. A., *Dean College of Agr.*  
T. L. Haecker, *Dairy and Animal Husb., Animal Nutr.*  
M. H. Reynolds, B. S., M. D., D. V. M., *Vet. Med., Surgery.*  
Andrew Boss, *Agr. and Farm Mgt.*  
Frederick L. Washburn, M. A., *Ent.*  
E. M. Freeman Ph. D., *Veg. Path., Bot.*  
John T. Stewart, C. E., *Agr. Engin., Farm Structures and Farm Mech.*  
D. D. Mayne, *Agr. Pedag.; Prin. School of Agr.*  
Edmund L. Butts, Major, U. S. A., *Mil. Sci.*  
Ralph Hoagland, B. S., *Agr. Chem., Soils.*  
E. G. Cheyney, A. B., *For.; Actg. Dir. School of For.*  
Fannie C. Boutelle, *Dom. Econ.; Preceptress.*  
R. M. Washburn, B. Agr., M. S., (*Assoc.*) *Dairy Husb.*  
C. P. Bull, B. Agr., (*Assoc.*) *Agr.*  
LeRoy Cady, B. S. in Agr., (*Assoc.*) *Hort.*  
L. B. Bassett, (*Asst.*) *Farm Mech.*  
Geo. P. Grout, M. S., (*Asst.*) *Dairy Husb.*  
R. C. Lansing, M. A., (*Asst.*) *Engl.*  
C. C. Lipp, D. V. M., (*Asst.*) *Vet. Med., Surgery.*  
J. P. Wentling, M. A., (*Asst.*) *For.*  
A. G. Ruggles, B. S. A., M. A., (*Asst.*) *Ent.*  
R. H. Williams, B. S. A., M. S., (*Asst.*) *Animal Husb.*  
A. C. Army, B. S. in Agr., *Instr. Agr.*  
W. L. Boyd, D. V. M., *Instr. Vet. Sci.*  
Margaret J. Blair, *Instr. Dom. Art.*  
Elizabeth Brooks, *Instr. Dom. Art.*  
George Elwell, B. S. in H. E., *Instr. Dom. Art.*

Bessie Bernis, B. S., *Instr. Dom. Sci.*  
Alvah M. Bull, *Instr. Draw.*  
Henrietta Clopath, *Instr. Free-hand Draw.*  
Mary L. Coffin, *Music.*  
Grace Denney, B. S., *Instr. Phys. Training.*  
J. M. Drew, *Registrar; Instr. Poultry Husb.*  
Wm. H. Frazier, B. S., *Instr. Soils, Ferts.*  
A. L. Hutchings, *Instr. Animal Husb.*  
James B. Frear, M. E., *Instr. Mech.*  
A. D. Johnston, *Instr. Blacksm.*  
Cornelia Kennedy, B. A., *Instr. Agr. Chem.*  
A. R. Kohler, B. S. A., *Instr. Hort.*  
Lola McClure, *Instr. Dom. Sci.*  
May McDonald, B. S., *Instr. Dom. Sci.*  
Juniata L. Shepperd, M. A., *Instr. Dom. Sci.*  
Martha B. Moorhead, M. D., *Lect. in Dom. Hyg.*  
D. C. Mitchell, C. E., *Dir. of Gymnasium, Coach.*  
J. L. Mowry, *Instr. Farm Mech.*  
W. L. Oswald, *Instr. Agr. Bot.*  
H. B. Roe, B. S. in E., *Instr. Math.*  
Maude Rice, B. S. in H. E., *Instr. Dom. Art.*  
Greta Smith, *Instr. Dom. Art.*  
C. S. Spooner, A. B., *Instr. Ent.*  
E. C. Stakman, M. A., *Instr. Plant Path.*  
Rodney M. West, B. A., *Instr. Agr. Chem.*  
Frank W. White, M. S. in Agr., *Instr. Animal Husb.*  
D. J. Lane, *Instr. Poultry Husb.*  
H. B. White, B. S. in Agr., *Instr. Carpentry.*  
Lloyd R. Whitson, *Instr. Draw.*  
DeForest Hungerford, B. S., *Asst. in Chem.*  
Anna M. Smith, *Libr.*

## Agricultural Extension and Farmers' Institutes.

A. D. Wilson, B. S. in Agr., *Supt. of Farmers' Insts.; Chief of Ext. Work.*  
George F. Howard, *Rural Schools.*  
J. B. Lamson, B. S. A., *Rural Schools.*  
O. M. Olson, B. S. A., M. S., *Agr.*  
Margaret B. Baker, *Home Econ.*

W. H. Tomhave, B. S., *Live Stock.*  
K. A. Kirkpatrick, B. S. A., *Hort.*  
Geo. J. Baker, B. S. in Agr., *Farm Mgt.*  
Mary L. Bull, *Dom. Sci.*  
C. H. Welch, *Sec. Farmers' Insts.*

## The School of Agriculture.

George Edgar Vincent, Ph. D., LL. D., *President of the University*.

A. F. Woods, M. A., *Dean School of Agr.*  
D. D. Mayne, *Prin.; Practicums, Civics.*

J. M. Drew, *Registrar; Instr. Poultry.*  
Fannie C. Boutelle, *Preceptress; Social Culture.*

Anna M. Smith, *Libr.*  
 Andrew Boss, *Agr., Farm Mgt.*  
 J. T. Stewart, C. E., *Agr. Engin., Phys., Farm Structures and Farm Mech.*  
 T. L. Haecker, *Dairy Husb., Animal Husb., Animal Nutr.*  
 Margaret J. Blair, *Sew., Household Art.*  
 Juniata L. Shepperd, M. A., *Cooking, Laundering, Home Econ.*  
 R. C. Lansing, M. A., *Engl.*  
 F. L. Washburn, M. A., *Zool. Ent.*  
 E. M. Freeman, Ph. D., *Veg. Path., Bot.*  
 Ralph Hoagland, B. S., *Agr. Chem., Soils.*  
 M. H. Reynolds, B. S., M. D., D. V. M., *Vet. Sci.*  
 LeRoy Cady, B. S. in Agr., *Hort.*  
 E. G. Cheyney, A. B., *For.*  
 C. C. Lipp, D. V. M., *Comp. Physiol.*  
 E. L. Butts, Ph. B., Maj., U. S. A., *Mil. Sci. and Tactics.*  
 C. P. Bull, B. Agr., *Asst. in Agr.*  
 A. D. Wilson, B. S. in Agr., *Asst. in Agr.*  
 R. M. West, B. A., *Asst. in Agr. Chem.*  
 Cornelia Kennedy, B. A., *Asst. in Agr. Chem.*  
 A. L. Ewing, M. S., *Asst. in Agr. Phys.*  
 A. J. McGuire, B. Agr., *Asst. in Dairying.*  
 G. P. Grout, M. S., *Asst. in Dairy Husb.*  
 Greta Smith, *Asst. in Sew.*  
 May McDonald, B. S., *Asst. in Cooking.*  
 Estelle Cook, *Asst. in Engl.*  
 Eleanor Eaton, B. A., *Asst. in Engl.*  
 Elizabeth B. Hause, B. A., *Asst. in Engl.*  
 A. G. Ruggles, B. S. A., M. A., *Asst. in Ent.*  
 Alvah M. Bull, *Asst. in Draw., Farm Buildings.*

A. D. Johnston, *Asst. in Blacksm.*  
 H. B. White, B. S. in Agr., *Asst. in Carpentry.*  
 J. L. Mowry, *Asst. in Mech. Practicums.*  
 A. R. Kohler, B. S. A., *Asst. in Veg. Gard.*  
 J. P. Wentling, M. A., *Asst. in For.*  
 W. H. Frazier, B. S., *Asst. in Soils.*  
 W. L. Oswald, *Asst. in Agr. Bot.*  
 A. C. Arny, B. S. in Agr., *Asst. in Agr.*  
 W. L. Boyd, D. V. M., *Asst. Vet.*  
 H. Preston Hoskins, V. D. M., *Asst. Vet.*  
 James B. Frear, M. E., *Asst. in Mech.*  
 F. W. White, M. S. in Agr., *Asst. in Animal Husb.*  
 D. J. Lane, *Asst. in Poultry Husb.*  
 DeForest Hungerford, B. S., *Asst. in Chem.*  
 Lloyd R. Whitson, *Asst. in Draw.*  
 W. C. Anderson, *Asst. in Draw.*  
 D. C. Mitchell, C. E., *Hist., Dir. of Gymnasium.*  
 Earl L. Finney, *Math.*  
 Martha B. Moorhead, M. D., *Lect. in Dom. Hyg.*  
 Mary L. Coffin, *Music.*  
 H. B. Roe, B. S. in E., *Math.*  
 Lillian Hollinshead, *Asst. in Farm Accts.*  
 Elizabeth Brooks, *Asst. in Dom. Art.*  
 Bessie Bemis, B. S., *Asst. in Dom. Sci.*  
 Lola McClure, *Asst. in Dom. Sci.*  
 Maude Rice, B. S. in H. E., *Asst. in Dom. Art.*  
 Georgie Elwell, B. S. in H. E., *Asst. in Dom. Art.*  
 Olive McComber, *Asst. in Dom. Art.*  
 Gurld Laate, B. S. in H. E., *Asst. in Dom. Sci.*  
 Clara Aust, B. S. in H. E., *Asst. in Dom. Sci.*  
 Ida Sletta, *Asst. in Dom. Sci.*  
 Grace Denney, B. S., *Phys. Training.*  
 Miss D. L. Pearce, *Home Nursing.*

**Agricultural Experiment Station of the University of Minnesota, University Farm, St. Paul.**

Department of University of Minnesota, under the control of the board of regents.

**STATION STAFF.**

A. F. Woods, M. A., *Dir.*  
 T. L. Haecker, *Dairying, Animal Nutr., Animal Husb.*  
 M. H. Reynolds, B. S., M. D., D. V. M., *Vet.*  
 Andrew Boss, *Agr., Farm Mgt.*  
 F. L. Washburn, M. A., *Ent.*  
 E. M. Freeman, Ph. D., *Bot., Veg. Path.*  
 J. T. Stewart, C. E., *Agr. Engin., Drainage.*  
 Ralph Hoagland, B. S., *Agr. Chem., Soils.*  
 J. M. Drew, *Poultry.*  
 C. C. Lipp, D. V. M., *Asst. Vet.*  
 C. P. Bull, B. Agr., *First Asst. Agr.*  
 A. D. Wilson, B. S. in Agr., *Asst. Agr.; in charge of Farmers' Insts. and Ext. Work.*  
 LeRoy Cady, B. S. in Agr., *Asst. Hort.*  
 E. G. Cheyney, A. B., *Asst. For.*  
 J. P. Wentling, M. A., *Asst. For.*  
 A. G. Ruggles, B. S. A., M. A., *Asst. Ent.*  
 H. B. Scammell, B. S., *Asst. Ent.*  
 H. B. Roe, B. S. in E., *Asst. Agr. Engin.*  
 W. H. Frazier, B. S., *Asst. in Soils.*  
 Stephen Anthony, *Chem. (Animal Nutr. Invest.).*  
 Cornelia Kennedy, B. A., *Asst. Chem.*  
 R. M. West, B. A., *Asst. Chem.*  
 A. C. Arny, B. S. in Agr., *Asst. Agr.*  
 R. H. Williams, B. S. A., M. S., *Asst. Animal Husb.*  
 H. P. Hoskins, V. D. M., *Asst. Vet.*  
 W. L. Boyd, D. V. M., *Research Asst. in Vet. Sci.*  
 G. P. Grout, M. S., *Asst. Dairy Husb.*  
 A. R. Kohler, B. S. A., *Asst. Hort.*

M. J. Dorsey, M. S. A., *Fruit Breeding.*  
 George W. Walker, B. S., *Asst. in Soils.*  
 J. L. Mowry, *Asst. in Agr. Engin.*  
 C. H. Bailey, *Flour Invest.*  
 W. L. Oswald, *Asst. Agr. Bot.*  
 E. C. Stakman, M. A., *Asst. Agr. Bot.*  
 L. B. Bassett, *Farm Mgt.*  
 R. M. Washburn, B. Agr., M. S., *Asst. Dairy Husb.*  
 Warren Williamson, M. A., *Asst. Ent.*  
 C. S. Spooner, A. B., *Asst. Ent.*  
 DeForest Hungerford, B. S., *Asst. Chem.*  
 Johann Dittman, *Alcohol Invest.*  
 Wm. Underwood, B. S., *Wood Preservation.*  
 C. G. Selvig, M. A., *Supt. Substa., Crookston.*  
 H. R. Danielson (Crookston), *Agr.*  
 C. E. Brown (Crookston), *Poultry.*  
 F. H. Sargent, B. S. A. (Crookston), *Dairying.*  
 Thos. McCall (Crookston), *Hort.*  
 J. D. Bilsborrow, B. S. A. (Crookston), *Agron.*  
 R. B. Baxter, B. S. A. (Crookston), *Animal Husb.*  
 E. C. Higbie, M. A., *Supt. Substa., Morris.*  
 G. R. Ingalls, Ph. B. (Morris), *Animal Husb.*  
 P. E. Miller, B. S. (Morris), *Agron.*  
 A. J. McGuire, B. Agr., *Supt. Substa., Grand Rapids.*  
 L. P. Olson (Grand Rapids), *Poultry.*  
 Charles Haralson, *Supt. Fruit Breeding Farm, Excelsior.*  
 Harriet Matthews, *Treas.*  
 Fred Haralson, *Hort. Foreman.*

## MISSISSIPPI.

Mississippi Agricultural and Mechanical College, *Agricultural College*.<sup>1</sup>

## GOVERNING BOARD.

Board of Trustees: G. A. McIlhenny, *Forest*; J. S. Sexton, *Hazlehurst*; B. A. Weaver, *Columbus*; J. A. Glenn, *Starkville*; T. L. Wainwright, *Stonewall*; I. C. Enoch, *Hazlehurst*; James Gordon, *Okolona*.

## COURSES OF STUDY.

There are five four-year courses, viz: Agricultural engineering (including mechanical, electrical, civil, and mining engineering), general science, textile and industrial education (B. S.); postgraduate courses; a preparatory course; practical working boys' course; two-year courses in agriculture, mechanical engineering, electrical engineering, and textile industry, respectively; a ten weeks' course in agriculture; short summer courses in agriculture; a teachers' short spring course (pedagogy, agriculture and manual training), and a summer school for teachers.

## BOARD OF INSTRUCTION.

John C. Hardy, A. M., LL. D., *President*.

Wm. H. Magruder, M. A., LL. D., <i>V. Pres.; Engl.</i>	F. D. Mellen, M. S., ( <i>Asst.</i> ) <i>Engl.</i>
Washington L. Hutchinson, M. S., <i>Dean College of Agr.; Dir. Farmers' Insts.</i>	Hugh Critz, B. S., ( <i>Asst.</i> ) <i>Agron.</i>
Alexander B. McKay, B. S., <i>Hort.</i>	A. W. Garner, B. S., Ph. M., ( <i>Asst.</i> ) <i>Hist.</i>
John C. Herbert, M. S., <i>Hist., Civics.</i>	Matthew L. Freeman, M. S., ( <i>Asst.</i> ) <i>Draw.</i>
Wm. F. Hand, Ph. D., <i>Chem. (State Chem.).</i>	Edward H. Aicher, D. V. S., ( <i>Asst.</i> ) <i>Vet. Sci.</i>
Wm. N. Logan, Ph. D., <i>Geol., Min.</i>	S. F. Blumenfeld, M. S., ( <i>Asst.</i> ) <i>Zool.</i>
T. C. Musgrave, Lieut., U. S. A., <i>Mil. Sci. and Tactics.</i>	B. W. Anspen, B. S., ( <i>Asst.</i> ) <i>Hort.</i>
Joseph S. Moore, M. S., <i>Dairy Husb.</i>	James S. Wallace, B. S., <i>Instr. Math.</i>
Peter P. Garner, M. S., <i>Dean School of Indus. Ed.</i>	Stanley Wright, B. A., <i>Instr. Math.</i>
James V. Bowen, Ph. B., <i>Foreign Lang.</i>	Andrew M. Maxwell, <i>Instr. Bookkeeping.</i>
Henry L. Noel, B. S., M. D., <i>Anat., Physiol.; Surgeon.</i>	A. H. Shannon, M. A., <i>Instr. Engl.</i>
E. M. Ranck, D. V. M., <i>Vet. Sci.</i>	E. S. Towles, A. B., <i>Instr. Engl.</i>
R. W. Harned, B. S. Agr., <i>Zool.</i>	James E. McKell, B. S., <i>Instr. Manual Training.</i>
George H. Brunson, A. M., <i>Philos., Sociol.</i>	W. F. Kirkpatrick, B. Agr., B. E., <i>Instr. Poultry Husb.</i>
C. A. Cobb, B. S., <i>Ert. Work.</i>	Carl Leake, <i>Instr. Woodshop Practice; Dir. of Band.</i>
Daniels Scoates, B. S. in C. E., <i>Agr. Engin.</i>	Fred L. Elliott, B. S., <i>Instr. Chem.</i>
Harry B. Brown, Ph. D., <i>Bot., For.</i>	Augustus Levy, B. S., <i>Instr. Chem.</i>
R. L. Shields, B. S. Agr., ( <i>Assoc.</i> ) <i>Animal Husb.</i>	M. W. Phillips, A. M., <i>Instr. Foreign Lang.</i>
Fitz-John Weddell, B. S., ( <i>Assoc.</i> ) <i>Engl.</i>	Paul W. Terry, B. S., <i>Instr. Mod. Lang.</i>
Christopher R. Stark, B. S., ( <i>Assoc.</i> ) <i>Math.</i>	H. D. McMurtry, B. S., <i>Instr. Phys.</i>
L. L. Patterson, A. M., M. E., ( <i>Assoc.</i> ) <i>Phys.</i>	Early C. Ewing, M. S. A., <i>Instr. Cotton Grading.</i>
James R. Ricks, M. S., ( <i>Assoc.</i> ) <i>Agron.</i>	W. D. Chadwick, A. M., <i>Phys. Dir.</i>
V. W. Bragg ( <i>Assoc.</i> ), <i>Wood Shop, Manual Training.</i>	Perley B. Monosmith, <i>Florist.</i>
George G. Snow, M. S., ( <i>Assoc.</i> ) <i>Pedag.</i>	Whitman Davis, B. S., <i>Libr.</i>
	R. L. Pou, B. S., <i>Dairy Herdsman.</i>
	John C. Kean, <i>Herdsman Animal Husb. Dept.</i>

1. Mississippi Agricultural Experiment Station, *Agricultural College*.

2. McNeill Branch Experiment Station, *McNeill*.

3. Delta Branch Experiment Station, *Stonewall*.

4. Holly Springs Branch Experiment Station, *Holly Springs*.

Department of Mississippi Agricultural and Mechanical College, under the control of the board of trustees.

## STATION STAFF.

Mississippi Agricultural Experiment Station, *Agricultural College*.

E. R. Lloyd, M. S., <i>Dir.; Animal Husb.</i>	J. R. Ricks, M. S., <i>Agron.</i>
J. S. Moore, M. S., <i>Dairy Husb.</i>	S. F. Blumenfeld, M. S., <i>Asst. Ent.</i>
A. B. McKay, B. S., <i>V. Dir.; Hort.</i>	B. W. Anspen, B. S., <i>Asst. Hort.</i>
H. B. Brown, Ph. D., <i>Bot.</i>	E. H. Aicher, D. V. S., <i>Asst. Vet.</i>
E. M. Ranck, D. V. M., <i>Vet.</i>	E. C. Ewing, M. S. A., <i>Cotton Breeding.</i>
R. W. Harned, B. S. Agr., <i>Ent.</i>	J. J. T. Graham, B. S., <i>Analyst.</i>
W. F. Hand, Ph. D., <i>Chem.</i>	R. L. Pou, B. S., <i>Dairy Herdsman.</i>
W. N. Logan, Ph. D., <i>Geol.</i>	W. F. Kirkpatrick, B. Agr., B. E., <i>Poultryman.</i>
Daniels Scoates, B. S. in C. E., <i>Agr. Engin.</i>	A. J. Moore, B. S., <i>Treas.</i>

<sup>1</sup> Telegraph address, *Starkville*. Express and post-office address, *Agricultural College*. Freight address, *A. and M. College Station*.



## McNeill Branch Experiment Station, McNeill.

E. R. Lloyd, M. S., *Dir.*E. B. Ferris, M. S., *Asst. Dir. in charge.*J. W. Dill, *Foreman of Farm.*

## Delta Branch Experiment Station, Stoneville.

E. R. Lloyd, M. S., *Dir.*G. B. Walker, B. S., *Asst. Dir. in charge.*W. W. Fox, *Foreman of Farm.*

## Holly Springs Branch Experiment Station, Holly Springs.

E. R. Lloyd, M. S., *Dir.*C. T. Ames, B. S., *Asst. Dir. in charge.*

## Alcorn Agricultural and Mechanical College, Alcorn.

## GOVERNING BOARD.

Board of trustees: B. A. Weaver, *Columbus*; J. A. Glem, *Starkville*; J. S. Sexton, *Hazlehurst*; I. C. Enochs, *Jackson*; T. L. Wainwright, *Stonevall*; James Gordon, *Okolona*; G. A. McIlhenny, *Forest*; Geo. R. Edwards (*Treas. ex officio*), *Jackson*.

## COURSES OF STUDY.

The courses of study are as follows: Three-year industrial, four-year scientific, four-year agricultural (B. S.), two-year domestic science and arts, three-year college preparatory, and three-year primary.

## BOARD OF INSTRUCTION.

J. A. Martin, A. M., *President; Instructor in Political Economy.*L. J. Rowan, B. S., Ph. D., *Engl.; Instr. Book-keeping, American Lit.*J. R. Ramsey, B. S., *Math., Surveying.*R. A. Gordon, B. S., M. D., *Nat. Sci.*J. H. Moseley, B. S., *Econ., Phys. Sci.*E. H. Patton, B. S., *Agr.; Farm Supt.*H. T. Tanner, *Hort., Dairy and Animal Husb.*J. C. Bullen, Ph. B., *Engl.*A. E. Perkins, *Biol.*W. R. Wiley, *Hist.*J. H. Powell, B. S., (*Asst.*) *Math., Instr. Bot.*P. S. Bowles, B. S., *Instr. Agron., Plant Biol., Farm Econ.*J. T. Hall, B. S., (*Asst.*) *Engl.*A. D. Snodgrass, *Chaplain; (Asst.) Nat. Sci.*F. J. Norwood, *Instr. Geol.*Mrs. J. E. D. Woode, *Matron.*Mrs. Sadie H. Miller, *Dom. Sci.*Anna C. Snodgrass, *Instr. Hand Laundering.*Alice G. Laws, *Sew.*J. M. Black, *Sec.*Selina C. Jackson, *Nurse Training.*

## MISSOURI.

## College of Agriculture of the University of Missouri, Columbia.

## GOVERNING BOARD.

Board of curators: D. R. Francis (*Pres.*), *St. Louis*; J. C. Parrish\* (*V. Pres.*), *Vandalia*; J. G. Babb (*Sec.*) *Columbia*; R. B. Price (*Treas.*), *Columbia*; P. E. Burton, *Joplin*; S. L. Baysinger, *Rolla*; C. B. Rollins,\* *P. O. Box 155, Columbia*; T. J. Wornall, *Liberty*; Chas. E. Yeater,\* *Sedalia*; J. C. Swift, *Kansas City*; G. L. Zwich, *St. Joseph*.

## COURSES OF STUDY.

In the college of agriculture the four-year course leads to the degree of B. S. in agriculture. There is also a winter course in general agriculture extending through two years of 14 weeks each, a summer school for teachers, a special one-week course in agriculture, and a farmers' week.

## BOARD OF INSTRUCTION.

Albert Ross Hill, A. B., Ph. D., LL. D., *President of the University; Educational Psychology.*Frederick B. Mumford, M. S., *Dean; Animal Husb.*Edward A. Allen, Litt. D., *Engl., Lit.*John W. Connaway, D. V. S., M. D., *Vet. and Comp. Med.*John C. Whitten, Ph. D., *Hort.*Wm. G. Brown, Ph. D., *Indus. Chem.*Curtis F. Marbut,<sup>1</sup> B. S., M. A., *Geol., Min., Soil Survey.*George Lefevre, Ph. D., *Zool.*Merritt F. Miller, M. S. A., *Agron.*C. H. Eckles, B. Agr., M. S., *Dairy Husb.*Herman Schlundt, Ph. D., *Phys. Chem.*Sidney Calvert, B. S. C., A. M., *Org. Chem.*George Reeder,<sup>2</sup> *Dir. Weather Bureau; Lect. on Climat.; Met.*P. F. Trowbridge, Ph. D., *Agr. Chem.*Winterton C. Curtis, Ph. D., *Zool.*Walter L. Howard, Ph. D., *Hort.*C. L. Brewer, *Phys. Culture; Dir. Athletics.*Edwin B. Branson, Ph. D., *Geol., Min.*John A. Ferguson, M. A., M. F., *For.*Ellery Farmer, Lieut., U. S. A., *Mil. Sci.; Comdt. of Cadets.*E. A. Trowbridge, B. S. A., *Animal Husb.*E. J. Durand, A. B., D. Sc., (*Asst.*) *Bot.*George M. Reed, Ph. D., (*Asst.*) *Bot.*D. H. Doane, M. S. A., (*Asst.*) *Farm Mgt.*H. O. Allison, B. S. A., (*Asst.*) *Animal Husb.*W. H. Chandler, M. S. A., (*Asst.*) *Hort.*C. B. Hutchison, B. S. A., (*Asst.*) *Agron.*<sup>1</sup> On leave.<sup>2</sup> In the service of the U. S. Department of Agriculture.



R. W. Selvidge, M. S., Ph. D., (*Asst.*) *Manual Arts*.  
 Harry L. Kempster, B. S., (*Asst.*) *Poultry Husb.*  
 Horace F. Major, B. S. A., LL. B., (*Asst.*) *Landscape Gard.*  
 Louise Stanley, Ph. D., (*Asst.*) *Home Econ.*  
 Amy L. Daniells, B. S. in Ed., (*Asst.*) *Home Econ.*  
 A. J. Meyer, *Supt. Short Courses; Asst. to Dean.*  
 R. H. Emberson, B. S., *Ert. Work in Rural Schools.*  
 L. S. Backus, D. V. M., *Instr. Vet. Sci.*  
 L. G. Rinkle, M. S. A., *Instr. Dairy Husb.*  
 C. R. Moulton, M. S. A., Ph. D., *Instr. Agr. Chem.*  
 James A. Gibson, M. A., *Instr. Chem.*  
 Leonard Haseman, Ph. D., *Instr. Ent.*  
 J. C. Hackleman, B. S., *Instr. Agron.*  
 P. L. Gainey, B. Agr., M. S., *Instr. Bot.*  
 F. V. Emerson, Ph. D., *Instr. Geol.*  
 L. D. Haigh, Ph. D., *Asst. in Agr. Chem.*  
 L. E. Morgan, A. B., *Asst. in Agr. Chem.*  
 G. C. White, B. S., *Asst. in Dairying.*  
 Howard Hackedorn, B. S. A., *Asst. in Animal Husb.*

L. A. Weaver, B. S. A., *Asst. in Animal Husb.*  
 Leroy S. Palmer,<sup>1</sup> B. S., M. A., *Asst. in Dairying.*  
 W. J. Hendrix, B. S. A., *Asst. in Agron.*  
 Thos. R. Douglass, B. S. A., *Asst. in Agron.*  
 E. G. Woodward, B. S., *Asst. in Dairy Husb.*  
 W. W. Wobus, B. S., *Asst. in Dairy Husb.*  
 P. M. Brandt, B. S., *Asst. in Dairy Husb.*  
 Lucile Keene, A. B., B. S. in Ed., *Asst. in Bot.*  
 O. R. Johnson, B. S. A., *Asst. in Farm Mgt.*  
 F. C. Streeter, B. S. A., *Asst. in Vet. Sci.*  
 H. H. Krusekopf, B. S., *Asst. in Soil Survey.*  
 H. G. Lewis, *Asst. in Soil Survey.*  
 E. C. Hall, *Asst. in Soil Survey.*  
 Arthur T. Sweet,<sup>1</sup> A. B., *Asst. in Soil Survey.*  
 Maude Parsons, A. B., *Asst. in Home Econ.*  
 Winona Woodward, B. S., *Asst. in Home Econ.*  
 Nelle Carter, *Asst. in Home Econ.*  
 Rena M. Bailey, *Asst. in Farm Home Mgt.*  
 Arthur Rhys, *Herdsmen.*  
 J. G. Babb, M. A., *Sec.*  
 R. B. Price, B. S., *Treas.*

#### Missouri Agricultural College Experiment Station, Columbia.

Department of the College of Agriculture of the University of Missouri, under the control of the board of curators.

#### STATION STAFF.

F. B. Mumford, M. S., *Dir.; Animal Husb.*  
 J. C. Whitten, Ph. D., *Hort.*  
 J. W. Connaway, D. V. S., M. D., *Vet.*  
 C. H. Eckles, B. Agr., M. S., *Dairying.*  
 M. F. Miller, M. S. A., *Agron.*  
 C. F. Marbut,<sup>2</sup> B. S., M. A., *Soil Survey.*  
 George Reeder,<sup>1</sup> *Dir. Weather Bureau.*  
 P. F. Trowbridge, Ph. D., *Chem.*  
 W. L. Howard, Ph. D., *Hort.*  
 G. M. Reed, Ph. D., *Bot.*  
 E. A. Trowbridge, B. S. A., *Animal Husb.*  
 D. H. Doane, M. S. A., *Farm Mgt.*  
 H. O. Allison, B. S. A., *Asst. Animal Husb.*  
 W. H. Chandler, M. S. A., *Asst. Hort.*  
 L. S. Backus, D. V. M., *Asst. Vet.*  
 L. G. Rinkle, M. S. A., *Asst. Dairyman.*  
 C. H. Moulton, M. S. A., Ph. D., *Asst. Chem.*  
 C. B. Hutchison, B. S. A., *Asst. Agron.*  
 L. D. Haigh, Ph. D., *Asst. Agr. Chem.*  
 Leonard Haseman, Ph. D., *Ent.*  
 J. A. Ferguson, M. A., M. F., *For.*  
 H. L. Kempster, B. S., *Poultry Husb.*  
 H. H. Krusekopf, B. S., *Asst. in Soil Survey.*  
 G. C. White, B. S., *Asst. Dairy Husb.*  
 L. A. Weaver, B. S. A., *Asst. Animal Husb.*  
 Howard Hackedorn, B. S. A., *Asst. Animal Husb.*  
 L. S. Palmer,<sup>1</sup> B. S., M. A., *Asst. Dairy Husb.*

P. M. Brandt, B. S., *Asst. Dairy Husb.*  
 E. G. Woodward, B. S., *Asst. Dairy Husb.*  
 W. W. Wobus, B. S., *Asst. Dairy Husb.*  
 C. M. Pollock, *Dairy Herdsmen.*  
 J. C. Hackleman, B. S., *Asst. Agron.*  
 W. J. Hendrix, B. S. A., *Asst. Agron.*  
 C. A. LeClair, B. S., *Asst. Agron.*  
 T. R. Douglass, B. S. A., *Asst. Agron.*  
 O. R. Johnson, B. S. A., *Asst. in Farm Mgt.*  
 P. L. Gainey, B. Agr., M. S., *Asst. in Soil Bact.*  
 L. E. Morgan, A. B., *Asst. Chem.*  
 E. E. Vanatta, M. S. A., *Asst. Agr. Chem.*  
 D. M. Nelson, B. S. in C. E., *Asst. Agr. Chem.*  
 H. F. Major, B. S. A., LL. B., *Asst. Landscape Gard.*  
 Boleslaus Szymoniak, B. S. in Agr., *Asst. Hort.*  
 F. C. Streeter, B. S. A., *Asst. in Vet. Sci.*  
 C. E. Wilson, B. S., *Asst. in Vet. Sci.*  
 W. E. Camp, *Research Asst. in Vet. Sci.*  
 H. G. Lewis, *Asst. in Soil Survey.*  
 E. C. Hall, *Asst. in Soil Survey.*  
 A. T. Sweet,<sup>1</sup> A. B., *Asst. in Soil Survey.*  
 A. J. Meyer, *Asst. to Dir.*  
 Arthur Rhys, *Herdsmen Animal Husb. Dept.*  
 J. G. Babb, M. A., *Sec.*  
 R. B. Price, B. S., *Treas.*

#### Missouri State Fruit Experiment Station, Mountain Grove.

#### GOVERNING BOARD.

Trustees: C. B. McAfee (*Pres.*), *Springfield*; Jay L. Torrey (*Sec.*), *Fruitville*; W. C. Paynter (*Treas.*), *Koshkonong*.

#### STATION STAFF.

Paul Evans, *Dir.*

———, M. S., *Veg. Path.*

F. W. Faurot, B. S., *Hort.*

A. M. Swartwout, *Field Asst.*

<sup>1</sup> In cooperation with the U. S. Department of Agriculture.

<sup>2</sup> On leave.

## Lincoln Institute, Jefferson City.

## GOVERNING BOARD.

Board of regents: W. F. Chamberlain (*Pres.*), Hannibal; A. Ross Hill (*V. Pres.*), Columbia; S. B. Cook (*Treas.*), Jefferson City; H. A. Gass (*State Supt. of Public Schools, ex officio*), Jefferson City; Thos. S. Mosby, Jefferson City; N. C. Burch (*Sec.*), Jefferson City; R. E. Roy, New London; J. E. Swanger, Jefferson City; E. S. Emery, Ely.

## COURSES OF STUDY.

This institution has the following departments: College (four-year course leading to degree of B. A.); college preparatory, normal (two and four year courses); normal preparatory (three years); industrial agricultural, and domestic science and art. There is also a summer school of nine weeks.

## BOARD OF INSTRUCTION.

Benjamin Franklin Allen, A. M., LL. D., *President; Ethics, Psychology.*

Grant S. Murray, A. B., *Phys. Sci.*  
John E. Anderson, A. B., *Math.*  
C. S. Woodard, B. S. A., *Biol. Agr.*  
Jessie F. Embry, A. B., *Engl. Draw.*  
A. C. Maclin, A. M., *Greek, Lat.*  
A. T. Walker, B. S., *Pedag.*  
V. H. Collins, B. S. D., *Asst. in Math.*  
Wm. H. Harrison, *Asst. in Engl.*  
R. N. Dett, *Vocal Music.*  
Martin Beck, *Farm Supt.*  
Annie E. Mollison, *Instr. Dom. Art.*  
Myrtle B. Craig, B. S., *Instr. Dom. Sci.*

Mrs. C. R. McDowell, *Matron for Boys.*  
Lillian Johnson, *Matron for Girls.*  
A. J. Shootes, *Tailoring.*  
W. V. Garrett, B. S. D., *Asst. in Tailoring.*  
Frances E. Motin, *Elocution, Phys. Culture.*  
J. W. Damel, Ph. B., *Asst. in Phys. Sciences.*  
Nora E. Hingston, *Asst. in Dom. Art.*  
Mrs. C. N. Rutledge, *in charge of Laundry.*  
J. L. Thorpe, *Wood Turning, Mech. Draw*  
W. J. Long, *in charge of Mach. Shops.*  
J. S. Himes, *Blacksm.*  
E. P. Rowell, *Carpentry.*

## MONTANA.

## Montana Agricultural College, Bozeman.

## GOVERNING BOARD.

Executive board: James M. Hamilton\* (*Pres.*), Bozeman; J. F. Blair\* *Seventh Avenue, Bozeman*; J. H. Baker\* *Commercial National Bank, Bozeman*; George Cox (*Treas.*), Bozeman; Geo. R. Callaway (*Sec.*), Bozeman.

## COURSES OF STUDY.

The following courses of study are given: Four-year courses in civil, electrical, and mechanical engineering, home science, chemistry, biology, history-literature, mathematics-physics, secretarial, agronomy, animal industry and dairying, and horticulture, leading to the degree of B. S.; four-year course in art and music; four-year preparatory, mechanic arts, and home science courses, and a three-year agricultural course; and two and three year courses in pharmacy (Ph. C.); a one-year course in home science, and short winter courses in creamery work (four weeks), poultry, dairying, stock judging, and domestic science (one week each).

## BOARD OF INSTRUCTION.

James M. Hamilton, M. S., *President; Philosophy, Economics.*

Wm. F. Brewer, A. M., *Engl.*  
Lilla A. Harkins, M. S., *Dom. Sci.*  
Robt. A. Cooley, B. S., *Zool., Ent.*  
Wm. D. Tallman, B. S., *Math.*  
Frederick B. Linfield, B. S. A., *Agr.*  
Wm. A. Cobleigh, A. M., *Chem.*  
Alfred Atkinson, B. S. A., *Agron.*  
Robert W. Clark, B. Agr., *Animal Indus.*  
Charles S. Dearborn, B. S., *Mech. Arts.*  
Deane B. Swingle, M. S., *Bot., Bact.*  
Robert D. Kneale, C. E., *Civil Engin.*  
Orville B. Whipple, B. S., *Hort.*  
Walter J. Taylor, D. V. M., *Vet. Sci.*  
Helen R. Brewer, A. B., *Hist.*  
M. H. Spaulding, A. M., (*Asst.*) *Zool.*  
Mary A. Cantwell, (*Asst.*) *Engl., Prin. Prep. School.*  
Frank W. Ham, M. S., (*Asst.*) *Phys.*  
Frank C. Snow, C. E., (*Asst.*) *Civil Engin.*  
Howard F. Patterson, B. S. A., (*Asst.*) *Agron.; Prin. School of Agr.*

Roy C. Jones, B. S., (*Asst.*) *Dairying.*  
Florence Ballinger, (*Asst.*) *Dom. Art.*  
Lana A. Baldwin, (*Asst.*) *Art.*  
Geo. L. Sullivan, B. S., (*Asst.*) *Mech. Arts.*  
Frieda Bull, M. S., *Instr. Math.*  
Harvey P. Griffin, B. S. A., *Instr. Animal Indus.*  
Rufus A. Barnes, B. S., *Instr. Chem.*  
Abigail M. Hess, B. S., *Instr. Dom. Sci.*  
Ralph T. Challenger, B. S., *Instr. Wood Shop.*  
Lyman G. Schermerhorn, B. S., *Instr. Hort.*  
Herbert B. Bonebright, B. S. A., *Instr. Agr. Engin.*  
Carrie M. Cehrs, A. M., *Instr. German.*  
Florence A. Wallin, A. B., *Instr. French and Spanish.*  
I. T. Gilruth, A. B., *Instr. Engl.*  
Harry M. Jennison, B. S., *Instr. Bot.*  
Genevieve Lane, *Instr. Art.*  
Theda M. Jones, *Instr. Sten. and Typew.*  
Fred Kately, *Asst. Forge and Foundry.*

## Montana Agricultural Experiment Station, Bozeman.

Department of the Montana Agricultural College, under the control of the executive board.

## STATION STAFF.

F. B. Linfield, B. S. A., <i>Dir.</i>	L. F. Gieseke, B. S., <i>Asst. Agron.</i>
R. A. Cooley, B. S., <i>Ent.</i>	W. F. Schoppe, <sup>1</sup> B. S., <i>Asst. Poultryman.</i>
O. B. Whipple, B. S., <i>Hort.</i>	H. E. Morris, B. S., <i>Asst. Bot.</i>
Alfred Atkinson, B. S. A., <i>Agron.</i>	R. F. Miller, B. S., <i>Asst. in Animal Indus.</i>
R. W. Clark, B. Agr., <i>Animal Indus.</i>	John R. Parker, B. S., <i>Asst. Ent.</i>
Edmund Burke, B. S., <i>Chem., Met.</i>	L. G. Schermerhorn, B. S., <i>Asst. Hort.</i>
D. B. Swingle, M. S., <i>Bot., Bact.</i>	H. B. Bonebright, B. S. A., <i>Asst. Agr. Engin.</i>
W. J. Taylor, D. V. M., <i>Vet.</i>	J. B. Nelson, <i>Supt. Dry Farm Work.</i>
Reuben M. Pinckney, B. S., A. M., <i>Asst. Chem.</i>	M. L. Wilson, B. S. A., <i>Asst. Dry Farm Work.</i>

## NEBRASKA.

The College of Agriculture of the University of Nebraska, Lincoln.

## GOVERNING BOARD.

Regents of the university: Chas. S. Allen (*Pres.*), *Lincoln*; Wm. G. Whitmore,\* *Valley*; Victor G. Lyford,<sup>2</sup> *Falls City*; Chas. B. Anderson, *Omaha*; Jas. S. Dales (*Sec.*), *Lincoln*; George Coupland,\* *Elgin*; Frank L. Haller,\* *Omaha*.

## COURSES OF STUDY.

The college courses consist of three general groups—the agricultural group, the forestry group, and the home economics group (B. S.). A four years' vocational course in agriculture and home economics is offered in a secondary school, which is in session for six months each year. A seven weeks' winter course in agriculture is also offered in this school. The teachers' college offers a one-year course in agriculture and in home economics and manual training, and a summer school for teachers (eight weeks).

BOARD OF INSTRUCTION.<sup>2</sup>Samuel Avery, Ph. D., *Chancellor of the University.*

Edgar A. Burnett, <sup>3</sup> B. S., <i>Dean College of Agr.</i>	Nels A. Bentgson, A. M., ( <i>Asst.</i> ) <i>Geog., Econ. Geol.</i>
Charles E. Bessey, Ph. D., LL. D., <i>Head Dean in Univ.; Head Bot.</i>	Julia E. Loughbridge, A. B., ( <i>Adjunct</i> ) <i>Math.; Asst. Prin. School of Agr.</i>
Lawrence Bruner, B. S., <i>Head Ent.; Actg. State Ent.</i>	W. L. French, B. S. in Agr., ( <i>Adjunct</i> ) <i>Dairy Husb.</i>
James H. Gain, M. D. C., <i>Head Animal Path.</i>	R. F. Howard, B. S. in Agr., ( <i>Adjunct</i> ) <i>Hort.</i>
Fredk. M. Hunter, A. B., <i>Prin. School of Agr.; Sec. Agr. Ed.</i>	R. S. Trumbull, A. M., ( <i>Adjunct</i> ) <i>Agr. Chem.</i>
Howard R. Smith, B. S., <i>Head Animal Husb.</i>	Flora Bullock, A. M., ( <i>Adjunct</i> ) <i>Engl.</i>
J. H. Frandson, M. S. A., <i>Head Dairy Husb.</i>	Geo. K. K. Link, S. B., ( <i>Adjunct</i> ) <i>Agr. Bot.</i>
Fredk. J. Alway, Ph. D., <i>Head Agr. Chem.</i>	W. J. Duppert, A. B., M. S. F., ( <i>Adjunct</i> ) <i>For.</i>
Rollins A. Emerson, B. S., A. M., <i>Hort.</i>	Charles B. Lee, B. S., ( <i>Adjunct</i> ) <i>Animal Husb.</i>
Rosa Bouton, A. M., <i>Home Econ.</i>	H. H. Filley, M. A., ( <i>Adjunct</i> ) <i>Farm Mgt.</i>
Edwin M. Wilcox, Ph. D., <i>Agr. Bot.</i>	Alva A. Baer, <i>Instr. Woodwork.</i>
Leon W. Chase, B. S. in M. E., <i>Agr. Engin.</i>	Mary V. Zimmer, A. B., <i>Instr. Math., Phys.</i>
Halsey E. Yates, Capt., U. S. A., <i>Mil. Sci.; Comdt. of Cadets.</i>	Helen L. Davis, A. B., <i>Instr. Home Econ.</i>
Charles W. Pugsley, B. S., <i>Farm Mgt.; Supt. of Agr. Ext.</i>	Ella B. Harper, A. B., <i>Instr. Home Econ.</i>
Geo. E. Condra, Ph. D., <i>Geog., Econ. Geol.</i>	Orpha Nesbitt, B. S., <i>Instr. Home Econ.</i>
Harriet Folger, B. S., ( <i>Assoc.</i> ) <i>Home Econ.</i>	O. W. Sjogren, <i>Instr. Forge Work.</i>
Myron H. Swenk, A. M., ( <i>Assoc.</i> ) <i>Ent.; Asst. State Ent.</i>	Esther M. Burritt, A. B., <i>Instr. Engl.</i>
Olenus L. Sponsler, A. B., ( <i>Assoc.</i> ) <i>For.</i>	Gladeth Denny, A. B., <i>Asst. in German and Hist.</i>
Lazelle B. Sturdevant, A. M., M. D., ( <i>Asst.</i> ) <i>Animal Path.</i>	Mabel Hedges, A. B., <i>Asst. in Home Econ.</i>
Ellis Rail, B. S. A., ( <i>Asst.</i> ) <i>Animal Husb.</i>	Howard J. Gramlich, B. S., <i>Asst. in Agron.</i>
Vernon V. Westgate, M. S., ( <i>Asst.</i> ) <i>Hort.</i>	Otto H. Liebers, B. S., <i>Asst. in Dairy Husb.</i>
Percy B. Parker, A. B., ( <i>Asst.</i> ) <i>Soils.</i>	Ray H. Camp, <i>Asst. in Dairy Husb.</i>
Erwin Hopt, B. S. in Agr., ( <i>Asst.</i> ) <i>Agron.</i>	Bert M. Barber, B. S., <i>Asst. in Dairy Husb.</i>
	Wm. P. Forbes, B. S., <i>Asst. in Dairy Husb.</i>
	Thos. W. Moseley, B. S., <i>Asst. in Dairy Husb.</i>
	Edna C. Noble, B. L., <i>Asst. Libr.</i>
	Samuel McKelvie, <i>Lect. on Swine Judging.</i>
	George G. Pollock, <i>Asst. Registrar, School of Agr.</i>

<sup>1</sup> On leave for one year at the College of Agriculture of the University of Maine.<sup>2</sup> Includes only instructors in subjects directly relating to agriculture. Many other members of the university faculty give instruction to students pursuing the course leading to the degree of B. S.<sup>3</sup> In full charge of all substations.



**Agricultural Experiment Station of Nebraska, Lincoln.**

Department of the University of Nebraska, under the control of the board of regents.

**STATION OF STAFF.**

E. A. Burnett,<sup>1</sup> B. S., *Dir.*  
H. R. Smith, B. S., *Animal Husb.*  
E. M. Wilcox, Ph. D., *Agr. Bot.*  
Frederick J. Alway, Ph. D., *Agr. Chem.*  
Lawrence Bruner, B. S., *Ent.*  
J. H. Frandson, M. S. A., *Dairy Husb.*  
O. L. Sponsler, A. B., *For.*  
E. H. Barbour, Ph. D., *Geol.*  
Geo. R. Chatburn, A. M., *Highway Engin.*  
R. A. Emerson, B. S., A. M., *Hort.*  
O. V. P. Stout, C. E., *Irrig. Engin.*  
L. W. Chase, B. S. in M. E., *Agr. Engin.*  
Geo. A. Loveland, B. S., LL. B., *Met.*  
C. W. Pugsley, B. S., *Farm Mgt.*  
J. H. Gain, M. D. C., *Animal Path.*  
W. L. French, B. S. Agr., *Asst. Dairy Husb.*  
W. P. Snyder, A. B., M. S., *Supt. North Platte Substa.*

W. W. Burr,<sup>2</sup> B. S., *Asst. in Soils and Crops, North Platte Substa.*  
Fritz Knorr, B. S., *Supt. Substa., Mitchell.*  
James Cowan, M. M. E., *Supt. Substa., Valentine.*  
R. S. Trumbull, A. M., *Asst. Agr. Chem.*  
P. B. Barker, A. B., *Asst. in Soils.*  
M. H. Swenk, A. M., *Asst. Ent. (Asst. State Ent.).*  
G. K. K. Link, S. B., *Asst. Agr. Bot.*  
R. F. Howard, B. S. in Agr., *Asst. Hort.*  
V. V. Westgate, M. S., *Asst. Hort.*  
L. B. Sturdevant, A. M., M. D., *Asst. Animal Path.*  
Ellis Rail, B. S. A., *Asst. Animal Husb.*  
C. B. Lee, B. S., *Asst. Animal Husb.*  
Theo. A. Kieselbach, A. B., B. S., *Asst. Agron.*  
Erwin Hopt, B. S. in Agr., *Asst. in Crop Agron.*  
S. W. Perin, *Farm Supt.*  
J. S. Dales, Ph. M., *Financial Sec.*

**NEVADA.**

**College of Agriculture of the University of Nevada, Reno.**

**GOVERNING BOARD.**

Regents of university: A. A. Codd \* (*Chair.*), *P. O. Box 811, Reno*; Geo. H. Taylor \* (*Sec.*), *Reno*; Jas. W. O'Brien, *Sparks*; C. B. Henderson, \* *Elko*; Hosea E. Reid, *Reno*; Frank Williams, \* *Good Springs.*

**COURSES OF STUDY.**

The regular course requires four years for completion and leads to the degree of B. S. in agriculture. Postgraduate courses are also provided, as well as preparatory courses in the university high school and courses in domestic science.

**BOARD OF INSTRUCTION.**

Joseph E. Stubbs, M. A., D. D., LL. D., *President of the University, Director of the Experiment Station, and in charge of Farmers' Institutes.*

Herbert W. Hill, B. L., Ph. M., *Engl. Lang. and Lit.*  
P. B. Kennedy, Ph. D., *Bot., Hort., For.*  
Gordon H. True, B. S., *Agr., Animal Husb.*  
Robert Lewers, *V. Pres.; Polit. Econ., Commerce.*  
Horace P. Boardman, B. S. in C. E., *Civil Engin. [Rural].*  
W. S. T. Smith, B. L., Ph. D., *Geol., Min.*  
Lowe A. McClure, Lieut., U. S. A., *Mil. Sci. and Tactics; Instr. Phys. Ed. for Men.*  
Samuel B. Doten, B. A., *Ent.*  
Peter Frandsen, A. M., *Biol.*  
C. A. Jacobson, Ph. D., *Agr. Chem.*  
Leon W. Hartman, Ph. D., *Phys.*  
Chas. Haseman, Ph. D., *Math., Mech.*  
Sterling P. Fergusson, *Met. and Climat.*  
Sanford C. Dinsmore, B. S., (*Asst.*) *Agr. Chem.*

Chas. S. Knight, B. S., (*Asst.*) *Agron.*  
Kate Bardenwerper, B. S., (*Asst.*) *Dom. Sci.*  
J. Claude Jones, A. B., (*Asst.*) *Geol., Min.*  
Katherine Lewers, (*Asst.*) *Free-hand Draw.*  
Maxwell Adams, Ph. D., *Chem.*  
Winfred B. Mack, D. V. M., *Bact., Vet. Sci.*  
A. Arthur Heller, A. M., (*Asst.*) *Bot., Hort., For.*  
Gustave S. Paine, Ph. M., *Instr. Engin.*  
Helen A. Meighan, *Instr. Phys. Training for Women.*  
Geo. D. Powers, B. S., *Instr. Mech. Engin.*  
A. W. Preston, *Instr. Mech. Engin.*  
Charles L. Brown, *Instr. Biol.*  
Frank L. Peterson, B. S. in M. E., *Instr. Irrig.*  
Miles B. Kennedy, B. S., *Asst. in Chem.*  
Jos. D. Layman, B. L., *Libr.*  
Alice E. Armstrong, *Asst. Libr.*

**Nevada Agricultural Experiment Station, Reno.**

Department of University of Nevada, under the control of the board of regents.

**STATION STAFF.**

Joseph E. Stubbs, M. A., D. D., LL. D., *Dir.*  
P. B. Kennedy, Ph. D., *Bot., Hort., For.*  
G. H. True, B. S., *Agr., Animal Husb., Irrig.*  
S. B. Doten, B. A., *Ent.*  
S. C. Dinsmore, B. S., *Chem.*  
James E. Church, Ph. D., *Coop. Observer in Climat. and Met.*  
W. B. Mack, D. V. M., *Vet., Bact.*

C. A. Jacobson, Ph. D., *Chem.*  
C. S. Knight, B. S., *Asst. Agron.*  
A. A. Heller, A. M., *Asst. Bot., Hort., For.*  
Theodore W. Clark, *Farm Supt.*  
Miles B. Kennedy, B. S., *Asst. Chem.*  
Mrs. T. W. Cowgill, M. A., *Libr.*  
S. P. Fergusson, *Assoc. Observer in Climat. and Met.*  
F. L. Peterson, B. S. in M. E., *Asst. in Irrig.*

<sup>1</sup> In full charge of all substations.

<sup>2</sup> In the service of the U. S. Department of Agriculture.



## NEW HAMPSHIRE.

New Hampshire College of Agriculture and the Mechanic Arts, *Durham*.

## GOVERNING BOARD.

Board of trustees: Gov. Robt. P. Bass (ex officio), *Concord*; Wm. D. Gibbs\* (ex officio), *Durham*; Warren Brown\* (Pres.), *Hampton Falls*; Lucien Thompson (Sec.), *Durham*; John G. Tallant,\* *West Concord*; Walter Drew, *Colebrook*; Rosecrans W. Pillsbury, *Londonderry*; Nahum J. Bachelder,\* *East Andover*; Edward H. Wason,\* *Nashua*; George W. Currier, *Nashua*; George H. Bingham, *Manchester*; Richard W. Sulloway, *Franklin*; H. L. Boutwell, 37 *Pierce St., Malden, Mass.*

## COURSES OF STUDY.

There are five four-year courses of study, viz: Agricultural, mechanical engineering, electrical engineering, chemical engineering, and a general course (open to women), all leading to the degree of B. S.; postgraduate courses; courses of 2 years and 10 weeks each in agriculture, a 10 weeks' course in dairying, and a farmers' week.

## BOARD OF INSTRUCTION.

William D. Gibbs, D. Sc., *President*.

Charles H. Pettee, A. M., C. E., <i>Dean; Math.</i>	W. H. Wolff, M. S., ( <i>Asst.</i> ) <i>Pomol.</i>
Clarence W. Scott, A. M., <i>Hist., Polit. Econ.</i>	Frank App., B. S., ( <i>Asst.</i> ) <i>Agron.</i>
Charles L. Parsons, <sup>1</sup> D. Sc., <i>Inorg. Chem.</i>	Frank E. McKone, B. S., ( <i>Asst.</i> ) <i>Mech. Engin.</i>
Frederick W. Taylor, B. S. A., <i>Agron.</i>	George A. Perley, M. S., ( <i>Asst.</i> ) <i>Phys. Chem.</i>
Arthur F. Nesbit, S. B., A. M., <i>Phys.</i>	Thomas J. Laton, B. S., <i>Instr. Draw.</i>
Richard Whoriskey, jr., A. B., <i>Mod. Lang.</i>	E. F. Little, <i>Instr. Woodworking.</i>
Frederic W. Putnam, B. S., <i>Draw. and Design.</i>	Telesphore Taisne, B. A., B. D., <i>Instr. Mod. Lang.</i>
Charles Brooks, Ph. D., <i>Bot.</i>	John C. Tonkin, <i>Instr. Mach. Work, Forging.</i>
Charles E. Hewitt, B. S., M. M. E., <i>Elect. Engin.</i>	J. J. Gardner, B. S., <i>Instr. Oler.</i>
Bethel S. Pickett, M. S., <i>Hort.</i>	L. W. Hitchcock, M. E., <i>Instr. Elect. Engin.</i>
Ernest R. Groves, A. B., B. D., <i>Psych., Sociol.</i>	S. H. Katz, B. S., C. E., <i>Instr. Chem.</i>
Forrest E. Cardullo, M. E., <i>Mech. Engin.</i>	Caroline A. Black, A. M., <i>Instr. Bot.</i>
G. W. Edgerly, Lieut., U. S. A., <i>Mil. Sci. and Tactics.</i>	David Lumsden, <i>Instr. Flor., Landscape Gard.</i>
Fred Rasmussen, B. S. A., <i>Dairying.</i>	Frederick W. Whitman, A. B., <i>Instr. Mod. Lang.</i>
C. Floyd Jackson, B. S., M. A., <i>Zool., Ent.</i>	J. H. Pierpont, <i>Asst. in Dairying.</i>
W. C. O'Kane, M. S., <i>Econ. Ent.</i>	Cornelia F. Kephart, B. S. A., <i>Asst. in Zool.</i>
Evan J. David, A. B., <i>Engl.</i>	Charlotte A. Thompson, <i>Asst. Libr.</i>
J. H. Foster, B. S., M. F., <i>For.</i>	Henry F. Judkins, B. S., <i>Asst. in Dairying.</i>
T. R. Arkell, B. S. A., ( <i>Assoc.</i> ) <i>Animal Husb.</i>	Margaret DeMeritt, B. S., <i>Asst. in Bot.</i>
Charles James, F. I. C., ( <i>Assoc.</i> ) <i>Inorg. Chem.</i>	Charles F. Whittemore, B. S., <i>Asst. in Chem.</i>
Frank C. Moore, A. B., ( <i>Assoc.</i> ) <i>Math.</i>	Carl C. Steck, A. B., M. S., <i>Asst. in Math.</i>
Mabel Hodgkins, A. B., B. S., <i>Libr.: Sec.</i>	Charles W. Stone, A. M., <i>College Farmer.</i>
O. L. Eckman, B. S., ( <i>Assoc.</i> ) <i>Animal Husb.</i>	Oscar W. Straw, <i>Engin. and Curator of Buildings.</i>
Guy C. Smith, Ph. B., ( <i>Assoc.</i> ) <i>Econ.</i>	Florence Trimmer, B. S., <i>Registrar.</i>

New Hampshire College Agricultural Experiment Station, *Durham*.

Department of New Hampshire College of Agriculture and the Mechanic Arts, under the control of the board of trustees.

## STATION STAFF.

John C. Kendall, B. S., <i>Dir.</i>	David Lumsden, <i>Asst. in Flor.</i>
F. W. Taylor, B. S. A., <i>Agr.</i>	O. L. Eckman, B. S., <i>Asst. Animal Husb.</i>
Charles Brooks, Ph. D., <i>Bot.</i>	W. H. Wolff, M. S., <i>Asst. Hort.</i>
Fred Rasmussen, B. S. A., <i>Dairyman.</i>	Frank App., B. S., <i>Asst. Agron.</i>
B. S. Pickett, M. S., <i>Hort.</i>	T. O. Smith, A. B., <i>Asst. Chem.</i>
T. R. Arkell, B. S. A., <i>Animal Husb.</i>	J. J. Gardner, B. S., <i>Asst. Oler.</i>
B. E. Curry, M. S., <i>Chem.</i>	Caroline A. Black, A. M., <i>Asst. Bot.</i>
W. C. O'Kane, M. S., <i>Ent.</i>	Cornelia F. Kephart, B. S. A., <i>Asst. Ent.</i>
C. W. Stone, A. M., <i>V. Dir.; Farmer.</i>	

## NEW JERSEY.

Rutgers Scientific School, the New Jersey College for the Benefit of Agriculture and the Mechanic Arts, *New Brunswick*.

## GOVERNING BOARD.

Board of trustees: Gov. Woodrow Wilson (ex officio), *Trenton*; W. S. Gummere (Chief Justice of the State, ex officio), *Newark*; Edmund Wilson (Attorney General, ex officio), *Trenton*; W. H. S. Demarest\* (Pres.), *New Brunswick*; David Bingham, *East Orange*; T. G. Bergen, *Brooklyn, N. Y.*; Frederick Frelinghuysen, *Newark*; James Neilson,\* *New Brunswick*; E. B. Coe, *New York City*; James Le Fevre, *Somerville*;

<sup>1</sup> On leave.

F. J. Collier, *Hudson, N. Y.*; Paul Cook, *Troy, N. Y.*; G. D. W. Vroom, *Trenton*; J. B. Kirkpatrick, *New Brunswick*; W. H. Leupp,\* *New Brunswick*; J. P. Searle (Sec.), *New Brunswick*; J. W. Herbert, jr., *Helmetta*; W. H. Vredenburg, *Freehold*; F. M. Voorhees, *Elizabeth*; W. H. Van Steenberg, *New York City*; A. T. Clearwater, *Kingston, N. Y.*; L. L. Kellogg, *New York City*; H. N. Fuller, *Albany, N. Y.*; J. R. Duryee, *New York City*; P. M. Brett,\* *New York City*; C. L. Edgar, *Boston, Mass.*; W. E. Florance, *New Brunswick*; L. L. Taylor, *Canandaigua, N. Y.*; D. W. Cooper,\* *New Brunswick*; W. P. Voorhees, *New Brunswick*; W. I. Chamberlain, *New Brunswick*; L. F. Loree, *New York City*; D. D. Sutphen, *New York City*; S. O. Vanderpoel, *New York City*; J. N. Carpenter, *New Brunswick*; I. S. Upson (Treas.), *New Brunswick*.

## COURSES OF STUDY.

There are 10 distinct four-year courses of study: Classical (A. B.), Latin scientific (Litt. B.), general science, agriculture, civil engineering, mechanical engineering, electrical engineering, chemistry, biology, and clay working and ceramics (B. S.); a two-year course in clay working and ceramics, and winter courses of 12 weeks each in general agriculture, dairy farming, fruit growing and market gardening, and poultry husbandry.

## BOARD OF INSTRUCTION.

W. H. S. Demarest, A. M., D. D., LL. D., *President*.

Francis Cuyler Van Dyck, Ph. D., D. Sc., *Dean*;  
*Phys., Expt. Mech.*  
 Austin Scott, Ph. D., LL. D., *Hist., Polit. Sci.*  
 Alfred A. Titsworth, C. E., Sc. D., *Civil Engin.*  
 Julius Nelson, Ph. D., *Biol.*  
 John B. Smith, D. Sc., *Ent.*  
 Robert W. Prentiss, M. S., *Math., Astron.*  
 Eliot R. Payson, Ph. D., *Hist. of Teaching, (Assoc.)*  
*German Lang. and Lit.*  
 J. Volney Lewis, B. E., S. B., *Geol., Min.*  
 Edwin B. Davis, B. L., *Romance Lang.*  
 Irving S. Upson, M. A., *Registrar, Sec. of Faculty.*  
 Walter R. Newton, Ph. D., *German Lang. and Lit.*  
 George H. Payson, A. M., D. D., *Ethics, Evidences*  
*of Christianity.*  
 Ralph G. Wright, Ph. D., *Chem.*  
 R. C. H. Heck, M. E., *Mech. Engin.*  
 Cullen W. Parmelee, B. S., *Ceramics.*  
 Frank F. Thompson, A. M., E. E., *Elect. Engin.*  
 M. T. Scudder, A. M., *Science of Teaching.*  
 Richard Morris, Ph. D., *Math., Graphics.*  
 Walter T. Marvin, Ph. D., *Logic and Mental Philos.*  
 Jacob G. Lipman, Ph. D., *Soil Fert. and Bact.*  
 A. E. Ahrends, Lieut., U. S. A., *Mil. Sci. and Tactics.*  
 Kary C. Davis, Ph. D., *Agr.; Prin. Short Courses.*  
 Mel T. Cook, Ph. D., *Plant Path.*

William E. Breazeale, M. S., (Assoc.) *Math.*  
 Albert C. de Regt, A. B., M. S., (Assoc.) *Chem.*  
 Chas. H. Whitman, Ph. D., (Assoc.) *Engl.*  
 E. W. Billetdoux, A. M., (Assoc.) *Romance Lang.*  
 Ralph O. Smith, Ph. D., (Assoc.) *Chem.*  
 Henry B. North, D. Sc., (Assoc.) *Chem.*  
 Maurice A. Blake, B. S., (Assoc.) *Hort.*  
 Frank R. Pratt, M. S., (Asst.) *Phys.*  
 Frederick C. Minkler, B. S. A., (Asst.) *Agr.*  
 Albert R. Johnson, B. S., (Asst.) *Math.*  
 W. Bertram Twiss, A. M., (Asst.) *Engl.*  
 John H. Logan, A. M., (Actg.) *Hist.*  
 Edward I. Barbour, B. O., M. E., *Instr. Rhet.,*  
*Elocution.*  
 Fred H. Dodge, B. A., *Instr. Phys. Training; Dir.*  
*Gymnasium.*  
 Erik S. Palmer, Ph. B., *Instr. Math.*  
 S. A. Stephenson, jr., B. S., C. E., *Instr. Graphics.*  
 William D. Hoyt, Ph. D., *Instr. Bot.*  
 Ray G. Voorhorst, B. S., *Instr. Hort.*  
 F. F. Couch, M. E., *Instr. Mech. Engin.*  
 Harry R. Lewis, B. S., *Instr. Dairying, Poultry Husb.*  
 Floyd E. Chidester, Ph. D., *Instr. Biol.*  
 Edward F. Hauch, M. A., *Instr. Mod. Lang.*  
 Eldon L. Loblein, jr., D. V. S., *Lect. in Vet. Sci.*  
 Geo. A. Osborn, B. S., *Libr.*

## New Jersey Agricultural College Experiment Station, New Brunswick.

Department of Rutgers College under the control of the board of trustees.

## STATION STAFF.

J. G. Lipman, Ph. D., *Dir.; Soil Chem., Bact.*  
 I. S. Upson, M. A., *Chief Clerk.*  
 Julius Nelson, Ph. D., *Biol.*  
 B. D. Halsted, D. Sc., *Bot.*  
 B. H. A. Groth, Ph. D., *Plant Physiol.*  
 M. T. Cook, Ph. D., *Plant Path.*  
 J. B. Smith, Sc. D., *Ent.*

A. W. Blair, A. M., *Assoc. Soil Chem., Bact.*  
 Irving L. Owen, B. S., *Asst. Chem.*  
 H. C. McLean, B. S., *Asst. Chem.*  
 Earle J. Owen, M. S., *Asst. Bot.*  
 Wm. D. Hoyt, Ph. D., *Asst. Bot., Bact.*  
 Raymond S. Patterson, B. S., *Asst. Ent.*  
 Mary Robinson, Ph. D., *Lab. Asst.*

## New Jersey State Agricultural Experiment Station, New Brunswick.

At Rutgers College.

## GOVERNING BOARD.

Board of managers: Gov. Woodrow Wilson, *Trenton*; W. H. S. Demarest, *New Brunswick*; Ephraim T. Gill, *Haddonfield*; David D. Denise (Pres.), *Freehold*; James Neilson, *New Brunswick*; Henry Marelli, *Paterson*; George E. De Camp, *Roseland*; George Dorer, *East Orange*; H. A. Gaede, *Hoboken*; Alex. P. Owen, *Mickleton*; Frank E. Bate, *Fishing Creek*; Philip Todd, *Peapack*; James McCarthy, 9 *Fullton Avenue, Jersey City*; W. T. Baggs, *Beverly*; W. V. McGalliard, *Trenton*; Nicodemus Warne, *Broadway*; J. T. Budd, *Chester*; Arthur Lozier, *Ridgewood*; G. M. Canfield, *Caldwell*; J. F. McDonough, *South Orange*; J. R. Hartung, *Jersey City*; Daniel Cole, *Jersey City*.

## STATION STAFF.

J. G. Lipman, Ph. D., *Dir.*  
 Irving S. Upson, M. A., *Sec., Treas.*  
 Charles S. Cathcart, M. S., *Chem.*  
 Vincent J. Carberry,<sup>1</sup> *Asst. Chem.*  
 Victor B. Hausknecht, B. S., *Asst. Chem.*  
 Willis H. Pearson, *Asst. Chem., Fert. and Feed Insp.*  
 R. L. Willis, B. S., *Asst. Chem., Fert. Insp.*  
 L. H. Williamson, *Sampler and Asst.*

J. B. Smith, D. Sc., *Ent.*  
 Maurice A. Blake, B. S., *Hort.*  
 A. J. Farley, B. S., *Asst. Hort., Market Gard.*  
 F. C. Minkler, B. S. A., *Animal Husb.*  
 H. R. Lewis, B. S., *Dairy and Poultry Husb.*  
 Walter W. Shute, *Farm Foreman.*  
 D. Manley Jobbins, *Greenhouse Asst. in Hort.*  
 Geo. B. Thrasher, *Field Asst. in Hort.*

## NEW MEXICO.

New Mexico College of Agriculture and Mechanic Arts, *Agricultural College.*

## GOVERNING BOARD.

Board of regents: W. A. Sutherland (*Pres.*), *Las Cruces*; R. E. McBride, *Las Cruces*; Hiram Hadley, *Mesilla Park*; Vincent B. May (*Sec. and Treas.*), *Las Cruces*; George Arnot, *Albuquerque*. Advisory members: Gov. Wm. J. Mills, *Santa Fe*; J. E. Clark (*Supt. Public Instr.*), *Santa Fe*.

## COURSES OF STUDY.

There are seven four-year courses of study, viz: Agricultural, mechanical engineering, civil engineering, electrical engineering, household economics, commerce, and a general scientific course (B. S.); graduate courses; four-year preparatory course; four-year industrial courses in agriculture, mechanics, domestic science, and business; two-year courses in English and English-Spanish stenography; two elementary courses for persons over 16 years of age who have not completed the eighth grade, and a farmers' week.

## BOARD OF INSTRUCTION.

W. E. Garrison, Ph. D., *President; Political Economy.*

John R. MacArthur, Ph. D., *Dean of College; Engl.*  
 Luther Foster, M. S. A., *Dean of Agr.*  
 Clarence T. Hagerty,<sup>1</sup> M. S., *Math., Astron.*  
 George J. Kyle, B. A., (*Assoc.*) *Engl.*  
 R. Fred Hare, M. S., *Chem.*  
 Fabian Garcia, M. S. A., *Hort.*  
 Eugene P. Humbert, Ph. D., *Agron.*  
 J. O. Miller, B. S., *Registrar; (Assoc.) Commerce.*  
 G. E. Lain, B. S., M. A., *Prin. Coml. Dept.*  
 F. L. Bixby, B. S. in C. E., *Civil and Irrig. Engin.*  
 Archibald B. Sage, M. S., *Mech. Engin.*  
 Mary F. Winningham, *Dean of Women; Instr.*  
*Prep. Dept.*  
 Pearl C. Miller, B. S., *Household Econ.*  
 Merritt L. Hoblit, A. B., *Lat., Mod. Lang.*  
 John H. Vaughan, A. M., *Hist., Polit. Sci.*  
 H. H. Simpson, B. S. A., (*Assoc.*) *Animal Husb.*  
 Fredk. W. Christensen, M. S., (*Assoc.*) *Chem.*  
 Howard S. Hammond, M. A., (*Assoc.*) *Biol.*  
 Chas. P. George, Major, U. S. A. (Retired), *Mil. Sci.*  
*and Tactics.*  
 Arthur H. Badenoch, *Phys. Ed.*  
 Singleton R. Mitchell, M. S., (*Asst.*) *Chem.*

Frank Stockton, B. S., (*Asst.*) *Phys.*  
 L. B. Selby, B. S., M. E., (*Asst.*) *Mech. Engin.*  
 G. P. Stocker, B. S. in C. E., (*Asst.*) *Math., Civil Engin.*  
 Dayton E. Merrill, M. S., (*Asst.*) *Biol.*  
 Rex E. Willard, B. S., (*Asst.*) *Agron.*  
 Seibert S. Hookland, B. S., (*Asst.*) *Commerce.*  
 W. T. Conway, B. S., *Supt. Agr. Ext. Work.*  
 Josephine Morton, A. B., *Libr.; Asst. in Engl.*  
 Ray M. Wilcox, B. E., *Instr. Pub. Speaking.*  
 Mrs. C. P. Phelps, *Instr. Prep. Dept.*  
 J. B. Stoneking, B. S. in M. E., *Asst. in Irrig. Engin.*  
 C. E. Winn, B. S., *Asst. in Mech. and Elect. Engin.*  
 Jos. W. Rigney, B. S. A., *Asst. in Hort.*  
 Sewell E. Merrill, B. S. A., *Asst. in Hort.*  
 Roy L. Phelps, *Asst. in Irrig. Engin.*  
 Maud M. Morrison, *Dir. of Music.*  
 Edna E. Anderson, *Asst. Libr.*  
 Fannie Ford, B. S., *Asst. in Math.*  
 Ruth Thompson, *Asst. in Household Econ.*  
 George R. Quesenberry, B. S. A., *Asst. in Animal Husb.*  
 Rupert L. Stewart, *Asst. in Agron.*

Agricultural Experiment Station of New Mexico, *Agricultural College.*

Department of New Mexico College of Agriculture and Mechanic Arts, under the control of the board of regents.

## STATION STAFF.

Luther Foster, M. S. A., *Dir.*  
 H. S. Hammond, M. A., *Bot.*  
 Fabian Garcia, M. S. A., *Hort.*  
 E. P. Humbert, Ph. D., *Agron.*  
 R. F. Hare, M. S., *Chem.*  
 S. R. Mitchell, M. S., *First Asst. Chem.; Sec.*  
 Frank Stockton, B. S., *Met.*  
 H. H. Simpson, B. S. A., *Assoc. Animal Husb.*  
 F. W. Christensen, M. S., *Animal Nutr.*  
 S. E. Merrill, B. S. A., *Asst. Hort.*  
 F. L. Bixby, B. S. in C. E., *Irrig. Engin.*

J. B. Stoneking, B. S. in M. E., *Asst. in Irrig.*  
 Rex E. Willard, B. S., *Asst. Agron.*  
 W. T. Conway, B. S., *Asst. Agron.*  
 R. L. Stewart, B. S. A., *Asst. Agron.*  
 J. W. Rigney, B. S. A., *Asst. Hort.*  
 R. L. Phelps, *Asst. Irrig.*  
 G. R. Quesenberry, B. S. A., *Asst. Animal Husb.*  
 D. E. Merrill, M. S., *Asst. Zool., Ent.*  
 Josephine Morton, A. B., *Libr.*  
 Edna E. Anderson, *Asst. Libr.*

<sup>1</sup> On leave.



## NEW YORK.

## New York Agricultural Experiment Station, Geneva.

## GOVERNING BOARD.

Board of control: Thos. B. Wilson (*Pres.*), *Hall*; W. O'Hanlon (*Sec. and Treas.*), *Geneva*; Gov. John A. Dix, *Albany*; Comr. Raymond A. Pearson, *Albany*; Alfred G. Lewis, *Geneva*; Edgar G. Dusenbury, *Portville*; Irving Rouse, *Rochester*; Lyman P. Haviland, *Camden*; L. L. Morrell, *Kinderhook*; Elihu S. Miller, *Wading River*.

## STATION STAFF.

Whitman H. Jordan, D. Sc., LL. D., *Dir.*  
 Geo. W. Churchill, *Agr.; Supt. Labor.*  
 William P. Wheeler, *Animal Indus.*  
 H. A. Harding, Ph. D., *Bact.*  
 H. J. Conn., Ph. D., *Assoc. Bact.*  
 James K. Wilson,<sup>1</sup> B. S., *Asst. Bact.*  
 Godfrey L. A. Ruehle, B. S. Pharm., M. S., *Asst. Bact.*  
 Fred C. Stewart, M. S., *Bot.*  
 George T. French, B. S., *Asst. Bot.*  
 J. G. Grossenbacher,<sup>1</sup> A. B., Pd. B., *Assoc. Bot.*  
 Lucius L. Van Slyke, Ph. D., *Chem.*  
 A. W. Bosworth,<sup>1</sup> B. S., *Assoc. Chem.*  
 E. L. Baker, B. S., *Assoc. Chem.*  
 Rudolph J. Anderson, B. S., *Assoc. Chem.*  
 Morgan P. Sweeney, M. A., *Asst. Chem.*  
 Arthur W. Clark, B. S., *Asst. Chem.*  
 Otto McCreary, *Asst. Chem.*

Jas. T. Cusick, B. S., *Asst. Chem.*  
 Orrin B. Winter, A. B., *Asst. Chem.*  
 George A. Smith, *Dairy Expert.*  
 Frank H. Hall, B. S., *Editor and Libr.*  
 Percival J. Parrott, A. M., *Ent.*  
 Harold E. Hodgkiss, B. S., *Asst. Ent.*  
 W. J. Schoene, M. S., *Asst. Ent.*  
 Ulysses P. Hedrick, M. S., *Hort.*  
 Richard Wellington, B. S., *Assoc. Hort.*  
 Chas. B. Tubergen, B. S., *Asst. Hort.*  
 Geo. H. Howe, B. S., *Asst. Hort.*  
 Orrin M. Taylor, *Foreman in Hort.*  
 J. F. Barker, M. S. A., *Soil Expert.*  
 F. A. Sitrine (*Riverhead*), M. S., *Special Agt.*  
 F. E. Gladwin, M. A. (*Fredonia*), *in charge Grape Disease Invest.*  
 Fredk. Z. Hartzell, M. S. (*Fredonia*), *Ent. Invest.*

## New York State College of Agriculture at Cornell University, Ithaca.

## GOVERNING BOARD.

Board of trustees of the university: *Ex officio*—Jacob G. Schurman\* (*Pres. of Univ.*), *Ithaca*; Governor, Lieutenant Governor, Speaker of the Assembly, Commissioner of Education, Commissioner of Agriculture, *Albany*; President of State Agricultural Society, *Albany*; Librarian of the Cornell Library, *Ithaca*. Chas. E. Cornell, *Ithaca*; Jared T. Newman, *Ithaca*; Mynderse Van Cleef, *Ithaca*; Robert H. Tremem,\* *Ithaca*; Charles E. Treman, *Ithaca*; Wm. H. French, 168 West Monroe St., Chicago, Ill.; Thos. B. Wilson, *Hall*; Henry H. Westinghouse, 165 Broadway, New York City; Emerson McMillin, 40 Wall St., New York City; Roger B. Williams, *Ithaca*; Albert H. Sewell, *Walton*; Harry L. Taylor, *Buffalo*; Henry W. Sackett, *Tribune Bldg., New York City*; Charles H. Blood, *Ithaca*; C. Sidney Shepard, *New Haven*; Stewart L. Woodford, 1 Madison Ave., New York City; Ira A. Place, *Grand Central Station, New York City*; Willard Beahan, *Cleveland, Ohio*; Frederick C. Stevens, *Attica*; Henry R. Ickelheimer, *Box 1854, New York City*; Henry B. Lord, *Ithaca*; Andrew D. White, *Ithaca*; John H. Barr, 293 Broadway, New York City; Robert T. Morris, 616 Madison Ave., New York City; John N. Carlisle, *Watertown*; Andrew Carnegie, 2 East Ninety-first St., New York City; George C. Boldt, *Waldorf-Astoria, New York City*; Frank H. Hiscock, *Syracuse*; Herbert D. Mason, 27 William St., New York City; James H. Edwards, 30 Church St., New York City; Frank H. Miller, 146 West Fifty-fourth St., New York City; Wm. F. Pratt, *Batavia*; Emmons L. Williams\* (*Sec.-Treas.*), *Ithaca*; Charles D. Bostwick (*Asst. Sec.-Treas.*), *Ithaca*.

## COURSES OF STUDY.

The college offers a four-year course leading to the degree of bachelor of science in agriculture; a four-year course in home economics; a four-year course in rural art; a combined course in agriculture and veterinary science leads to the degree of D. V. M.; and post-graduate courses leading to advanced degrees. The following special opportunities are also offered: General agriculture special work; nature-study special work, two years; winter courses of 11 weeks in general agriculture, poultry husbandry, horticulture, dairy industry, and home economics; 6 weeks' summer school in agriculture, home economics, and nature study; reading courses for the farm and the farm home; nature-study correspondence work, and a farmers' week.

<sup>1</sup> On leave.



## BOARD OF INSTRUCTION.

Jacob Gould Schurman, A. M., D. Sc., LL. D., *President of the University.*

Liberty H. Bailey,\* M. S., LL. D., *Dir. College Agr.; Dean Faculty.*  
 Isaac P. Roberts, M. Agr., *Agr. Emeritus.*  
 John H. Comstock,\* B. S., *Ent., Gen. Invertebrate Zool.*  
 Henry H. Wing,\* M. S. Agr., *Animal Husb.*  
 John Craig, M. S. Agr., *Hort.*  
 T. Lyttleton Lyon, Ph. D., *Soil Tech.*  
 Herbert J. Webber, Ph. D., *Plant Breeding.*  
 John L. Stone, B. Agr., *Farm Pract., Farm Crops.*  
 James E. Rice, B. S. A., *Poultry Husb.*  
 Benj. M. Duggar, Ph. D., *Plant Physiol*  
 George W. Cavanaugh, B. S., *Chem.*  
 George N. Lauman, B. S. A., *Rural Econ.*  
 Herbert H. Whetzel, M. A., *Plant Path.*  
 Elmer O. Fippin, B. S. A., *Soil Tech.*  
 George F. Warren, M. S. A., Ph. D., *Farm Mgt.*  
 Edward G. Montgomery, A. M., *Field Crops.*  
 William A. Stocking, jr., M. S. A., *Dairy Indus.*  
 Charles S. Wilson, A. B., M. S. A., *Pomol.*  
 Charles H. Tuck, A. B., *Ext. Teaching.*  
 Albert R. Mann, B. S. A., *Agr. Editing; Sec., Registrar.*  
 Wilford M. Wilson, M. D., *Met.*  
 Walter Mulford, B. S. A., F. E., *For.*  
 James G. Needham, Ph. D., *Limnology, Gen. Biol., Nature Study.*  
 Bryant Fleming, B. S. A., *Rural Art.*  
 Harry H. Love, Ph. D., *Plant Breeding.*  
 Arthur W. Gilbert, Ph. D., *Plant Breeding.*  
 Donald Reddick, Ph. D., *Plant Path.*  
 Flora Rose, B. S., M. A., *Home Econ.*  
 Martha Van Rensselaer, A. B., *Home Econ.*  
 William A. Riley, Ph. D., *(Asst.) Ent.*  
 Merritt W. Harper, M. S., *(Asst.) Animal Husb.*  
 William C. Baker, B. S. A., *(Asst.) Draw.*  
 James A. Bizzell, Ph. D., *(Asst.) Soil Tech.*  
 Clarence A. Rogers, M. S. A., *(Asst.) Poultry Husb.*  
 Glenn W. Herrick, B. S. A., *(Asst.) Econ. Ent.*  
 Howard W. Riley, M. E., *(Asst.) Farm Mech.*  
 Cyrus R. Crosby, A. B., *(Asst.) Ent. Invest.*  
 Harold E. Ross, M. S. A., *(Asst.) Dairy Indus.*  
 Elmer S. Savage, M. S. A., Ph. D., *(Asst.) Animal Husb.*  
 Lewis Knudson, Ph. D., *(Asst.) Plant Physiol.*  
 Kenneth C. Livermore, B. S., *(Asst.) Farm Mgt.*  
 Alvin C. Beal, Ph. D., *(Asst.) Flor.*  
 Mortier F. Barrus, A. B., *(Asst.) Plant Path.*  
 James C. Bradley, Ph. D., *(Asst.) Systematic Ent.*  
 John Bentley, jr., *(Asst.) For.*  
 E. Gorton Davis, B. S., *(Asst.) Rural Art.*  
 Edward R. Minns, B. S. A., *(Asst.) Farm Crops.*  
 Charles C. Hedges, A. B., *Instr. Agr. Chem.*  
 George W. Tailby, jr., B. S. A., *Supt. of Live Stock.*  
 Lewis J. Cross, B. A., *Instr. Agr. Chem.*  
 Edward S. Guthrie, M. S., *Instr. and Invest. Dairy Indus.*  
 Paul Work, A. B., B. S., *Instr. and Invest. Oler.*  
 Ralph H. Wheeler, *Instr. Ext. Teaching.*  
 Roy D. Anthony, B. S., *Instr. Pomol.*

Lee B. Cook, M. S., *Instr. Dairy Indus.*  
 Robert Matheson, Ph. D., *Instr. Biol.*  
 George C. Embody, Ph. D., *Instr. Agriculture.*  
 Morris M. McCool, Ph. D., *Instr. Plant Physiol.*  
 Harry M. Fitzpatrick, A. B., *Instr. Plant Path.*  
 Arthur L. Thompson, B. S., *Instr. Farm Mgt.*  
 Byron B. Robb, B. S., *Instr. Farm Mech.*  
 Ray E. Deuel, B. S., *Instr. Animal Husb.*  
 Clyde H. Myers, Ph. D., *Ext. Instr. Dairy Breeding.*  
 Earl W. Benjamin, B. S. A., *Instr. Poultry Husb.*  
 Lois W. Wing, A. M., *Instr. Dairy Indus.*  
 Walter W. Fisk, B. S., *Instr. Dairy Indus.*  
 A. C. King, *Instr. Ext. Teaching.*  
 Royal Gilkey, B. S. A., *Instr. Ext. Teaching; Supt. of Reading Courses.*  
 Alice G. McCloskey, A. B., *Lect. on Nature Study.*  
 Anna B. Comstock, B. S., *Lect. on Nature Study.*  
 Mrs. Helen B. Young, B. Arch., *Lect. on Home Econ.*  
 Mrs. Ida S. Harrington, *Lect. on Home Econ.*  
 John W. Spencer, *Agt. in Ext. Work.*  
 Harry O. Buckman, M. S. A., *Asst. in Soil Tech.*  
 Hugh C. Troy, B. S. A., *Asst. in Dairy Lab.*  
 G. Clayton Dutton, *Asst. in Cheese Making.*  
 Harvey L. Ayres, *Supt. of Dairy Manufactures.*  
 Charles H. Van Auker, *Asst. in Animal Husb.*  
 Ada E. Georgia, *Asst. in Nature Study.*  
 Clara Nixon, *Asst. in Poultry Husb.*  
 Emmons W. Leland, B. S. A., *Asst. in Soil Tech.*  
 John T. Lloyd, A. B., *Asst. in Biol.*  
 Anna C. Stryke, A. B., *Asst. in Ent.*  
 Walter S. Lyon, *Asst. Poultry Husb.*  
 Anna E. Jenkins, B. S., *Asst. in Plant Path.*  
 Ralph J. Gilmore, A. M., *Asst. in Biol.*  
 George R. Hill, jr., B. S., *Asst. in Plant Physiol.*  
 Charles T. Gregory, B. S., *Asst. in Plant Path.*  
 Louis M. Hurd, *Asst. in Poultry Husb.*  
 Robert P. Trask, *Asst. in Poultry Husb.*  
 Frank E. Rice, A. B., *Asst. in Agr. Chem.*  
 Wm. R. Thompson, B. S. A., *Asst. in Ent.*  
 Lucy W. Smith, M. A., *Asst. in Ent.*  
 Thos. J. McInerney, B. S., *Asst. in Dairy Indus.*  
 Horace M. Pickerill, B. S., *Asst. in Dairy Indus.*  
 E. M. Tuttle, B. S. A., *Asst. in Rural Ed.*  
 David E. Fink, B. S., *Asst. in Econ. Ent.*  
 R. Y. Winters, M. S., *Asst. in Plant Breeding.*  
 C. S. Wright, M. S. A., *Asst. in Oler.*  
 George J. Burt, B. S., *Asst. in Flor.*  
 Walter B. Hare, *Asst. in Met.*  
 C. P. Smith, A. M., *Asst. in Plant Path.*  
 Carl Ilg, *Asst. Curator, Ent. Dept.*  
 George W. Tailby, *Foreman of Farms.*  
 Lucy H. Ashton, *Asst. Registrar.*  
 Charles E. Hunn, *Gard.*  
 George M. Cosh, *Gard. Hort. Dept.*  
 Arthur B. Cornelius, *Asst. Gard.*  
 Walter G. Krum, *Supt. Poultry Plant.*  
 Andrew J. Lamoureux, *Libr.*  
 G. A. Renney, *Supt. Mailing Rooms.*  
 Herbert W. Teeter, *Supt. Plant Breeding Gard.*

<sup>1</sup> Detailed to State work at Geneva Station during four months in summer.

## Cornell University Agricultural Experiment Station, Ithaca.

Department of New York State College of Agriculture at Cornell University, under the control of the board of trustees of Cornell University.

## STATION STAFF.

L. H. Bailey, M. S., LL. D., <i>Dir.</i>	C. A. Rogers, M. S. A., <i>Poultry Husb.</i>
A. R. Mann, B. S. A., <i>Sec.</i>	G. W. Herrick, B. S. A., <i>Econ. Ent.</i>
J. H. Comstock, B. S., <i>Ent.</i>	H. W. Riley, M. E., <i>Farm Mech.</i>
H. H. Wing, M. S. Agr., <i>Animal Husb.</i>	C. R. Crosby, A. B., <i>Ent. Invest.</i>
John Craig, M. S. Agr., <i>Hort.</i>	H. E. Ross, M. S. A., <i>Dairy Indus.</i>
T. L. Lyon, Ph. D., <i>Soil Tech.</i>	E. S. Savage, M. S. A., Ph. D., <i>Animal Husb.</i>
H. J. Webber, Ph. D., <i>Plant Breeding.</i>	Lewis Knudson, Ph. D., <i>Plant Physiol.</i>
J. L. Stone, B. Agr., <i>Farm Pract., Farm Crops.</i>	K. C. Livermore, B. S., <i>Farm Mgt.</i>
J. E. Rice, B. S. A., <i>Poultry Husb.</i>	A. C. Beal, Ph. D., <i>Flor.</i>
B. M. Dugger, Ph. D., <i>Plant Physiol.</i>	M. F. Barrus, A. B., <i>Plant Path.</i>
G. W. Cavanaugh, B. S., <i>Chem.</i>	C. C. Hedges, A. B., <i>Agr. Chem.</i>
H. H. Whetzel, M. A., <i>Plant Path.</i>	G. W. Tailby, jr., B. S. A., <i>Supt. Live Stock.</i>
E. O. Fippin, B. S. A., <i>Soil Tech.</i>	E. S. Guthrie, M. S., <i>Dairy Indus.</i>
G. F. Warren, M. S. A., Ph. D., <i>Farm Mgt.</i>	Paul Work, A. B., B. S., <i>Oler.</i>
E. G. Montgomery, A. M., <i>Field Crops.</i>	E. R. Minns, B. S. A., <i>Farm Practice, Farm Crops.</i>
W. A. Stocking, jr., M. S. A., <i>Dairy Indus.</i>	L. B. Cook, M. S., <i>Dairy Indus.</i>
C. S. Wilson, A. B., M. S. A., <i>Pomol.</i>	M. M. McCool, Ph. D., <i>Plant Physiol.</i>
H. H. Love, Ph. D., <i>Plant Breeding Invest.</i>	H. L. Ayres, <i>Supt. Dairy Manufactures.</i>
A. W. Gilbert, Ph. D., <i>Plant Breeding.</i>	Clara Nixon, Asst. <i>Poultry Husb.</i>
Donald Reddick, <sup>1</sup> Ph. D., <i>Plant Path.</i>	Lois W. Wing, A. M., <i>Dairy Indus.</i>
W. A. Riley, Ph. D., <i>Ent.</i>	E. W. Leland, B. S. A., <i>Soil Tech.</i>
M. W. Harper, M. S., <i>Animal Husb.</i>	C. T. Gregory, B. S., <i>Plant Path.</i>
J. A. Bizzell, Ph. D., <i>Soil Tech.</i>	W. W. Fisk, B. S., <i>Dairy Indus.</i>

## NORTH CAROLINA.

The North Carolina College of Agriculture and Mechanic Arts, West Raleigh.

## GOVERNING BOARD.

Board of trustees: R. H. Ricks, *Rocky Mount*; J. O. Ellington, *Fayetteville*; O. Max Gardner, *Shelby*; T. E. Vann, *Como*; C. W. Gold, *Raleigh*; E. M. Koonce, *Jacksonville*; D. A. Tompkins, *Charlotte*; W. E. Daniel, *Weldon*; W. H. Ragan, *High Point*; W. B. Cooper, *Wilmington*; M. B. Stickley, *Concord*; T. T. Ballenger, *Tryon*; N. B. Broughton, *Raleigh*; O. L. Clark, *Clarkton*; Everett Thompson, *Elizabeth City*; M. L. Reed, *Biltmore*.

## COURSES OF STUDY.

There are six four-year courses of study, viz: Agricultural (B. S.); civil, mechanical, and electrical engineering, and textile science and art (B. E.), and chemistry and dyeing (B. S.); graduate courses; one and two year normal courses for rural teachers; short courses of two years in mechanic arts and textile art; one-year course in agriculture; a seven weeks' winter course in general agriculture and dairying; a one-week corn course; a one-week course in farm drainage; and a May school (one month) for agricultural teachers.

## BOARD OF INSTRUCTION.

Daniel Harvey Hill, A. M., LL. D., *President*.

Wallace C. Riddick, A. B., C. E., <i>V. Pres.</i> ; <i>Civil Engin.</i>	Bartholomew M. Parker, B. S., ( <i>Asst.</i> ) <i>Textile Indus.</i>
William A. Withers, A. M., <i>Chem.</i>	Carroll L. Mann, B. S., C. E., ( <i>Asst.</i> ) <i>Civil Engin.</i>
Frank L. Stevens, <sup>2</sup> Ph. B., <i>Bot., Veg. Path.</i>	George Summey, jr., Ph. D., ( <i>Asst.</i> ) <i>Engl.</i>
Robert E. Lee Yates, A. M., <i>Math.</i>	Ralph I. Smith, <sup>2</sup> B. S., ( <i>Asst.</i> ) <i>Zool., Ent.</i>
Thomas Nelson, <i>Textile Indus.</i>	Weldon T. Ellis, M. E., ( <i>Asst.</i> ) <i>Mach. Design, Steam Lab.</i>
Clifford L. Newman, M. S., <i>Agr.</i>	Leon F. Williams, Ph. D., ( <i>Asst.</i> ) <i>Chem.</i>
William H. Browne, jr., A. B., <i>Phys., Elect. Engin.</i>	Henry K. McIntyre, B. E., ( <i>Asst.</i> ) <i>Phys., Elect. Engin.</i>
Howard E. Satterfield, M. E., <i>Mech. Engin.</i>	Charles B. Park, <i>Instr. Mach. Shop, Asst. in Power Plant.</i>
Thomas P. Harrison, Ph. D., <i>Dean Engl.; Engl.</i>	John S. Jeffrey, <i>Instr. Poultry Husb.</i>
Guy A. Roberts, B. S., D. V. S., <i>Vet. Sci., Physiol.</i>	Abraham Rudy, A. M., Pd. D., <i>Instr. Mod. Lang.</i>
Ira O. Schaub, B. S., <i>Agr. Ext.</i>	Wiley T. Clay, B. E., <i>Instr. Woodworking and Pattern-Making.</i>
Willis G. Peace, Captain, U. S. A., <i>Mil. Sci. and Tactics.</i>	John E. Halstead, B. S., <i>Instr. Dyeing.</i>
John C. McNutt, B. S. A., <i>Dairying, Animal Husb.</i>	Herbert M. Steed, <i>Instr. Weaving and Designing.</i>
Melvin E. Sherwin, B. S. A., M. S., ( <i>Assoc.</i> ) <i>Soils.</i>	
Joshua P. Pillsbury, B. S., ( <i>Assoc.</i> ) <i>Hort.</i>	

<sup>1</sup> Detailed to State work at Geneva Station during four months in summer.

<sup>2</sup> To resign January 1, 1912.

Robert P. Latané, B. S., *Instr. Phys.*  
 Fred B. Wheeler, *Instr. Forge.*  
 William F. Morris, B. E., *Instr. Shop and Draw.*  
 Burton J. Ray, Ph. D., *Instr. Chem.*  
 John W. Harrelson, B. E., *Instr. Math.*  
 Vergil C. Pritchett, M. S., *Instr. Phys.*  
 William F. Turner, B. S., *Instr. Animal Husb.*  
 Ruble I. Poole, C. E., *Instr. Civil Engin.*  
 Harry Tucker, B. A., B. S., *Instr. Math., Civil Engin.*  
 Harry H. Peckham, A. B., *Instr. Engl.*  
 Lillian L. Vaughan, M. E., *Instr. Mech. Engin. Lab.*  
 Lafayette F. Koonce, B. S., D. V. S., *Instr. Vet. Sci.*  
 Thomas H. Taylor, *Instr. Poultry Husb.*

William F. Pate, B. S., *Instr. Chem.*  
 Francis W. Sherwood, M. S., *Instr. Chem.*  
 Edson D. Sanborn, B. S., *Instr. Dairying.*  
 William P. Angel, M. A., *Instr. Math.*  
 Paul E. Cowgill, M. E., *Instr. Drawing.*  
 Duane B. Rosenkrans, A. B., *Instr. Bot.*  
 Warren C. Norton, Ph. B., *Asst. in Bact.*  
 Franklin J. Crider, M. S. A., *Asst. in Hort.*  
 Bennett T. Simms, D. V. M., *Asst. in Anat. and Physiol.*  
 Edwin B. Owen, B. S., *Registrar.*  
 Arthur F. Bowen, *Bursar.*  
 Mrs. Charlotte M. Williamson, *Libr.*  
 Henry McKee Tucker, M. D., *Physician.*

#### North Carolina Agricultural Experiment Station, West Raleigh.

Department of North Carolina College of Agriculture and Mechanic Arts, under control of trustees of the college.

#### STATION STAFF.

Charles B. Williams, M. S., *Dir.; Agron.*  
 W. A. Withers, A. M., *Chem.*  
 F. L. Stevens,<sup>1</sup> Ph. D., *Veg. Path., Bact.*  
 J. S. Jeffrey, *Poultryman.*  
 R. S. Curtis, B. S. A., *Animal Husb.*  
 R. I. Smith,<sup>1</sup> B. S., *Ent.*  
 G. A. Roberts, B. S., D. V. S., *Vet.*  
 J. P. Pillsbury, B. S., *Hort.*  
 W. C. Etheridge, B. Agr., M. S., *Assoc. Agron.*

B. J. Ray, Ph. D., *Asst. Chem.*  
 A. R. Russell, *Asst. in Field Expts.*  
 L. R. Detjen, B. S. A., M. S., *Asst. Hort.*  
 T. B. Stansel, B. S., *Asst. Chem.*  
 G. W. Wilson, A. M., M. S., *Asst. in Plant Diseases.*  
 C. E. Bell, B. S., *Asst. in Soil Bact.*  
 J. M. Beal, *Asst. in Cottonseed Meal Invest.*  
 A. F. Bowen, *Bursar.*

#### Agricultural Experiment Station of the North Carolina State Department of Agriculture, Raleigh.

#### BOARD OF CONTROL.

State board of agriculture: <sup>2</sup> W. A. Graham (*Comr. of Agr., ex officio Chair.*), Raleigh; H. C. Carter, *Fairfield*; K. W. Barnes, *Lucama*; R. L. Woodard, *Pamlico*; I. H. Kearney, *Franklinton*; R. W. Scott, *Hav. River*; A. T. McCallum, *Red Springs*; J. P. McRae, *Laurinburg*; William Bledsoe, *Gale*; W. J. Shuford, *Hickory*; A. Cannon, *Horse Shoe*.

#### STATION STAFF.

B. W. Kilgore, M. S., *Dir.; Farm Crops; State Chem.*  
 Franklin Sherman, jr., B. S. Agr., *Ent.*  
 W. N. Hutt, B. S. A., *Hort.*  
 T. B. Parker, *Demonstration Work, Farmers' Insts.*  
 H. H. Brimley, *Naturalist, Curator.*  
 W. M. Allen, *Food Chem.*  
 W. G. Chrisman, V. S., *Vet.; State Vet.*  
 J. M. Pickel, Ph. D., *Asst. Chem.*  
 W. G. Haywood, B. Litt., *Fert. Chem.*  
 G. M. MacNider, B. S., *Feed Chem., Microscopist.*  
 L. L. Brinkley, *Asst. Chem.*  
 E. L. Worthen, M. S., *Soil Invest.*  
 W. H. Strowd, A. B., *Asst. Chem.*  
 J. Q. Jackson, A. B., *Asst. Chem.*  
 E. W. Thornton, M. S., *Asst. Chem. (Soil Work).*  
 W. A. Smith, *Asst. Chem.*  
 Hubert Hill, M. S., *Asst. Feed Chem.*

J. K. Plummer, *Asst. Chem.*  
 S. C. Clapp, *Nursery and Orchard Insp.*  
 S. B. Shaw, B. S., *Asst. Hort.*  
 Zeno P. Metcalf, B. S., *Asst. Ent.*  
 W. H. Eaton, B. S., *Dairyman.*  
 J. L. Burgess, B. S., *Agron.*  
 E. P. Wood, D. V. S., *Asst. Vet.*  
 B. B. Flowe, D. V. S., *Asst. Vet.*  
 W. E. Hearn, <sup>3</sup> *Soil Survey.*  
 Miss O. I. Tillman, M. S., *in charge of Weed and Seed Invest.*  
 Mary S. Birdsong, *Sec. to Dir.*  
 R. W. Scott, jr., *Supt. Edgecombe Branch Sta., Rocky Mount.*  
 F. T. Meacham, *Supt. Iredell Branch Sta., Statesville.*  
 J. H. Jeffries, *Supt. Pender Branch Sta., Willard.*  
 R. W. Collett, *Supt. Transylvania Branch Sta., Blantyre, and Buncombe Branch Sta., Swannanoa.*

#### The Agricultural and Mechanical College for the Colored Race, Greensboro.

#### GOVERNING BOARD.

Board of trustees: M. C. S. Noble (*Chair.*), *Chapel Hill*; A. T. Whitsett (*Sec. and Treas.*), *Greensboro*; J. I. Foust, *Greensboro*; C. C. Cranford, *Asheboro*; W. L. Kluttz, *Salisbury*; M. W. Bell, *Murphy*; W. A. Darden, *Ayden*; J. B. Minor, *Greensboro*; R. W. Morphis, *Reidsville*; W. A. Enloe, *Dillsboro*; C. M. Vanstory, *Greensboro*; W. E. Brooks, *Pittsboro*.

<sup>1</sup> To resign January 1, 1912.

<sup>2</sup> All members of the board connected with management of the station.

<sup>3</sup> Assigned by the Bureau of Soils, U. S. Department of Agriculture.



## COURSES OF STUDY.

The courses of study are: A 2-year preparatory and two 4-year collegiate courses, the agricultural leading to the degree of B. Agr. and the mechanical leading to the degree of B. S. A 2-year course in agriculture and a 6 weeks' course in agriculture are also given.

## BOARD OF INSTRUCTION.

James B. Dudley, A. M., LL. D., *President; English.*

S. B. Jones, B. A., M. D., *Asst. in Engl.*

John H. Bluford, B. S., A. M., *Dir. Agr. Dept.; Instr. Agr. and Chem.*

W. F. Debnam, A. B., *Supt. of Farm; Instr. Pract. Agron.*

Nathaniel A. Murray, B. Agr., *Instr. Hort., Bot., Flor.*

A. L. Mebane, M. Agr., *Supt. of Dairy; Instr. Dairy and Animal Husb.*

D. K. Cherry, A. B., *Instr. Math.*

## NORTH DAKOTA.

**North Dakota Agricultural College, Agricultural College.<sup>1</sup>**

## GOVERNING BOARD.

Board of trustees: G. H. Hollister, *Fargo*; John Donnelly, *Crafton*; C. E. Nugent, *Fargo*; C. W. Kelley (*Pres.*), *Devils Lake*; Frank Sanford, *Valley City*; H. D. Mack, *Dickey*; Peter Elliott, *Fargo*; W. A. Yoder (*Sec.*), *Agricultural College*; W. P. Porterfield (*Treas.*), *Fargo*.

## COURSES OF STUDY.

Ten 4-year courses of study are provided, each leading to the degree of B. S., viz: Agriculture (with choice of agronomy group, animal-husbandry group, or teachers' group), civil engineering, mechanical engineering, chemical engineering, pharmaceutical chemistry, home economics, education, veterinary science, biology, and general science. There are also three short-year courses in farm husbandry, domestic science, and power machinery; a 3-year teachers' course in elementary agriculture and nature study; 3-year preparatory and 1-year subpreparatory courses; a 3-year course in commerce; a 3-year course in pharmacy; 10 weeks' winter lecture courses in agriculture and steam engineering; a 4 weeks' summer course in traction engineering; and a 4 weeks' summer school for teachers, including agriculture, nature study, and home economics.

## BOARD OF INSTRUCTION.

J. H. Worst, LL. D., *President of the College and Director of the Experiment Station; Political Economy.*

Edwin F. Ladd, B. S., *Dean Chem. and Pharm.; Chem., Pharm.; State Chem.*

Claire B. Waldron, B. S., *Hort., Ent.*

Henry L. Bolley, M. S., *Dean Biol.; Bot., Plant Path.*

Edward S. Keene, B. S., *Dean Phys. and Mech. Engin.; Phys., Mech. Engin.*

John H. Shepperd, M. S. A., *Dean Agr.; Agr.*

Harry W. McArdle, B. S., *Math.*

Samuel T. Herren, Lieut., U. S. A., *Mil. Sci. and Tactics.*

Leunis Van Es, M. D., V. S., *Vet. Sci.*

Alfred H. Parrott, A. M., *Registrar.*

Max Batt, Ph. D., *Mod. Lang.*

Archibald E. Minard, A. M., *Engl. Lang. and Lit.*

Arland D. Weeks, M. A., *Ed.*

William B. Richards, B. S. A., *Animal Husb.*

William B. Bell, Ph. D., *Zool., Physiol.*

Jessie M. Hoover, B. S., *Dean of Women; Home Econ.*

William J. Trimble, Ph. D., *Hist., Social Sci.*

George L. Martin, B. S. A., *Dairying.*

Alfred G. Arvold, B. A., *Oratory.*

Herbert A. Hard, B. S., *Geol., Min.*

H. L. White, M. A., *Physiol. Chem., and Toxicology.*

Ray C. Doneghue, M. S. A., *Agron. (Soils).*

Oliver W. Dynes, B. S., *Agron. (Farm Crops).*

Roe E. Remington, B. A., *Food and Sanitary Chem.*

Joseph W. Ince, M. A., *Agr. Chem.*

Clarence S. Putnam, M. D., *Dir. Music.*

Gordon W. Randlett, B. S. A., *Dir. College Ext.; (Asst.) Agr.*

Abbie L. Simmons, Ph. B., (*Asst.*) *Engl.*

Herbert F. Bergman, B. S., (*Asst.*) *Bot.*

Fred C. Householder, B. A., (*Asst.*) *Math.*

Robert M. Dolve, B. S., (*Asst.*) *Agr. Engin.*

Ernest D. Harris, D. V. M., (*Asst.*) *Vet. Sci.*

John E. Kirshman, Ph. M., (*Asst.*) *Hist. German.*

Christian I. Gunness, B. S., (*Asst.*) *Mech. Engin.*

Irvin W. Smith, A. M., (*Asst.*) *Math.*

Arthur F. Schalk, D. V. M., (*Asst.*) *Vet. Sci.*

Maurice L. Dolt, Ph. D., (*Asst.*) *Org. and Anal. Chem.*

Ledyard W. Sargent, A. M., (*Asst.*) *Indus. Chem.*

Chas. J. T. Doryland, M. S., (*Asst.*) *Bact.*

Haile Chisholm, *Instr. Forge Shop.*

George L. Tibert, *Instr. Wood Shop.*

Jaredine Thompson, *Instr. Free-hand Draw.*

Mathias Erickson, B. S., *Instr. Steam Engin.*

John E. Kalmbach, B. S., *Prin. High School; Engl.*

Andrew McMeans, *Instr. Hort.*

George E. Miller, M. A., *Instr. Biol.*

Elmer J. Thompson, B. S., *Instr. Animal Husb.*

Alice P. Dinan, *Instr. Engl.*

Alice G. Haggart, *Instr. Home Econ., Hyg.; Dir. Phys. Training.*

Jean W. Donaldson, B. S., *Instr. Home Econ.*

Sadie L. Jacobson, B. S., *Asst. in Home Econ.*

<sup>1</sup> Freight and express address, *Fargo*.



North Dakota Agricultural Experiment Station, *Agricultural College*.

Department of North Dakota Agricultural College, under the control of the board of trustees.

## STATION STAFF.

J. H. Worst, L.L. D., *Dir.*  
 E. F. Ladd, B. S., *Chem.*  
 C. B. Waldron, B. S., *Hort., Ent.*  
 H. L. Bolley, M. S., *Bot., Plant Path.*  
 J. H. Shepperd, M. S. A., *V. Dir.; Agr. (in charge of Substas. and Demonstration Farms).*  
 Leunis Van Es, M. D., V. S., *Vet.*  
 W. B. Richards, B. S. A., *Asst. Animal Husb.*  
 R. C. Doneghue, M. S. A., *Asst. Agr. (Soils, Plant Breeding).*  
 H. F. Bergman, B. S., *Asst. Bot. (Myc.).*  
 D. G. Milbrath, A. B., *Asst. Bot.*  
 J. R. Campbell, M. S. A., *Asst. Bot. (Seed Anal.).*  
 C. J. T. Doryland, M. S., *Asst. Bot. (Soil Bact.).*  
 W. H. Mercer, B. S., *Asst. Bot. (Plant Breeding).*  
 Orin A. Stevens, B. S., *Asst. Bot. (Seed Anal.).*  
 H. L. White, M. A., *Asst. Chem. (Cereals).*  
 Adolph Ziefle, Ph. C., B. S., *Chem. (Drugs).*  
 R. E. Remington, B. A., *Chem. (Foods).*  
 Mrs. Adele Shepperd, *Asst. Chem. (Water and Foods).*  
 W. F. Sudro, B. S., *Asst. Chem. (Drugs).*  
 Levi Thomas, M. S., *Asst. Chem. (Baker).*  
 J. H. Wright, M. S., *Asst. Micro-Chem.*  
 E. B. Putt, Ph. C., B. S., *Asst. Chem. (Drugs).*

M. L. Dolt, Ph. D., *Asst. Chem. (Textile Fibers).*  
 L. W. Sargent, A. M., *Asst. Chem. (Paints).*  
 J. W. Ince, M. A., *Asst. Agr. Chem. (Soils).*  
 W. L. Stockham, M. S., *Asst. Chem. (Illuminating Oils).*  
 Henry Reddy, B. S., *Asst. Chem.*  
 C. P. Guthrie, Ph. C., B. S., *Drug Insp.*  
 O. W. Dynes, B. S., *Asst. in Breeding Invest.*  
 R. M. Dolve, B. S., *Asst. Agr. Engin.*  
 E. J. Thompson, B. S., *Asst. Animal Husb.*  
 A. F. Schalk, D. V. M., *Asst. Vet.*  
 G. L. Martin, B. S. A., *Asst. Dairyman.*  
 Andrew McMeans, *Asst. Hort.*  
 E. D. Harris, D. V. M., *Asst. Vet.*  
 C. V. Kennedy, *Farm Foreman.*  
 W. A. Yoder, *Sec.*  
 L. R. Waldron, M. S., M. A., *Supt. Substa., Dickinson.*  
 O. A. Thompson, B. S., *Supt. Substa., Edgeley.*  
 E. G. Schollander, B. S., *Supt. Substa., Williston.*  
 E. D. Stewart, B. S., *Supt. Substa., Langdon.*  
 W. R. Lanxon, *Supt. Substa., Hettinger.*  
 Wm. R. Porter, M. S. A., *Supt. Demonstration Farms*  
 Evan W. Hall, B. S. A., *Asst. Supt. Demonstration Farms.*  
 Thos. Sanderson, *Miller.*

## OHIO.

The Colleges of Agriculture and of Veterinary Medicine, Ohio State University, Columbus.

## GOVERNING BOARD.

Board of trustees: Oscar E. Bradfute (*Chair.*), *Route 5, Xenia*; W. J. Sears (*V. Chair.*), *Chillicothe*; Frank E. Pomerene, *Coshocton*; Oscar T. Corson, *Columbus*; Guy W. Mallon, *Cincinnati*; Carl E. Steeb (*Sec.*), *Columbus*; John T. Mack, *Sandusky*; Julius F. Stone, *Columbus*; L. F. Sater (*Treas.*), *Columbus*.

## COURSES OF STUDY.

The university is divided into seven colleges, as follows: Agriculture, arts, philosophy, and science; education; engineering; law; pharmacy; and veterinary medicine.

The college of agriculture offers eight distinct courses of study: Four-year courses in agriculture, horticulture, forestry, and domestic science; two-year courses in agriculture and horticulture; a 10 weeks' winter course in agriculture, and a special course in dairying. Degrees are granted in the four-year courses as follows: B. S. in agriculture, B. S. in horticulture, B. S. in forestry, and B. S. in domestic science.

The college of veterinary medicine offers a three-year course leading to the degree of D. V. M., and to a certificate of veterinary surgeon to those who fail in certain requirements for admission.

## BOARD OF INSTRUCTION.

Rev. William Oxley Thompson, A. M., D. D., L.L. D., *President of the University.*

Homer C. Price,<sup>1</sup> M. S. A., *Dean; Rural Econ.; Mgr. Univ. Farm.*  
 H. C. Ramsower, B. S. A., *Sec.; (Asst.) Agron.*  
 Alfred Vivian, Ph. G., *Agr. Chem.; Actg. Dean.*  
 William R. Lazenby,<sup>1</sup> M. Agr., *For.*  
 Wendell Paddock, M. S., *Hort.*  
 Henry A. Weber, Ph. D., *Agr. Chem.*  
 Matthew B. Hammond, M. L., Ph. D., *Econ. and Sociol.*  
 Christopher E. Sherman, C. E., *Civil Engin.*  
 George W. Knight, Ph. D., *Amer. Hist.*  
 Joseph R. Taylor, M. A., *Engl.*  
 Albert M. Bleile, M. D., *Anat., Physiol.*  
 Benjamin L. Bowen,<sup>1</sup> Ph. D., *Romance Lang. and Lit.*

Joseph V. Denney, B. A., *Engl.*  
 William McPherson, Ph. D., *Chem.*  
 David S. White, D. V. M., *Dean Vet. Med.*  
 Herbert Osborn, M. S., *Zool., Ent.; Dir. Lake Lab.*  
 Frank E. Sanborn, B. S., *Dir. Dept. Indus. Arts.*  
 Joseph N. Bradford, M. E., *Arch.*  
 John A. Bownocker, D. S., *Inorg.; Geol. State Geol.; Curator Museum.*  
 Oscar Erf, B. S. A., *Dairying.*  
 Ruth A. Wardall, M. A., *Dom. Sci.; in charge of Dept. Dom. Sci.*  
 Charles S. Plumb, B. S., *Animal Husb.*  
 Charles B. Morrey,<sup>1</sup> B. A., M. D., *Bact.*  
 David R. Major, Ph. D., *Psych.*  
 James E. Hagerty, Ph. D., *Econ. and Sociol.*

<sup>1</sup> On leave.

F. R. Marshall, B. S. A., *Animal Husb.*  
 Francis L. Landacre, B. A., *Zool., Ent.*  
 Oscar V. Brumley, V. S., *Vet. Med.*  
 Mary R. Laver, *Art.*  
 Anna K. Flint, B. S., (*Assoc.*) *Dom. Art.*  
 Edna N. White, (*Assoc.*) *Dom. Sci.*  
 J. Warren Smith, *Met. Sci.*  
 A. G. G. Richardson, V. M. D., *Vet. Path.*  
 Charles A. Bruce, B. A., *Romance Lang. and Lit.*  
 Thomas E. French, M. E., *Engin. Draw.*  
 Septimus Sisson, B. S., V. S., *Compt. Anat.*  
 Arthur G. McCall, B. S. A., *Agron.*  
 John H. Schaffner, A. M., M. S., *Head Dept. of Bot.: Bot.*  
 Eugene F. McCampbell, B. S., *Bact.*  
 Alfred P. Dachnowski, Ph. D., (*Asst.*) *Bot.*  
 James S. Hine, B. S., (*Assoc.*) *Zool., Ent.*  
 John H. McNeill, M. D. V., *Vet.; Surgery and Obstetrics.*  
 Charles L. Arnold, M. S., (*Assoc.*) *Math.*  
 George H. McKnight, Ph. D., *Engl.*  
 Edgar S. Ingraham, Ph. D., (*Assoc.*) *Romance Lang. and Lit.*  
 John F. Lyman, Ph. D., (*Assoc.*) *Agr. Chem.*  
 Robt. F. Earhart, Ph. D., (*Assoc.*) *Phys.*  
 Fayette A. McKenzie, Ph. D., (*Assoc.*) *Econ. and Sociol.*  
 Wm. L. Evans, Ph. D., (*Assoc.*) *Chem.*  
 Berthold A. Eisenlohr, Ph. B., (*Assoc.*) *German Lang. and Lit.*  
 Christian H. Goetz, M. S., (*Assoc.*) *For.*  
 Thomas K. Lewis, B. S., (*Asst.*) *Manual Training.*  
 Vernon H. Davis, M. S. A., (*Asst.*) *Hort.*  
 Robert F. Griggs, M. A., (*Asst.*) *Bot.*  
 May Thomas, Ph. D., (*Asst.*) *German Lang. and Lit.*  
 Carson S. Duncan, M. A., (*Asst.*) *Engl.*

Robert Meiklejohn, M. E., (*Asst.*) *Engin. Draw.*  
 Oliver C. Lockhart, M. A., (*Asst.*) *Econ. and Sociol.*  
 Grace M. Bareis, Ph. D., (*Asst.*) *Math.*  
 Julia Titsworth, (*Asst.*) *Art.*  
 William M. Barrows, M. S., (*Asst.*) *Zool., Ent.*  
 Henry W. Vaughan, M. S. A., (*Asst.*) *Animal Husb.*  
 F. A. Lambert, D. V. M., (*Asst.*) *Vet. Anat.*  
 Ernest M. Scott, (*Asst.*) *Path.*  
 John B. Preston, M. A., (*Asst.*) *Math.*  
 Chas. C. Huntington, M. A., (*Asst.*) *Econ. and Sociol.*  
 L. M. Montgomery, M. S., (*Asst.*) *Hort.*  
 Firman E. Bear, M. S. A., (*Asst.*) *Agr. Chem.*  
 George Livingston, B. S. A., (*Asst.*) *Agron.*  
 Frederica Detmers, M. S., *Instr. Bot.*  
 William C. Morse, M. A., *Instr. Geol.*  
 O. C. Cunningham, B. S., *Instr. Dairying.*  
 Charles P. Crowe, *Instr. Forging.*  
 John Chisholm, B. S. A., *Farm Supt.*  
 Maxwell E. Corotis, B. S., *Florist.*  
 David M. Fyffe, *Supt. Live Stock.*  
 Wm. L. Clevenger, B. S. A., *Inst. Butter Making.*  
 Freeman S. Jacoby, B. S. A., *Instr. Poultry Husb.*  
 E. F. Rinehart, B. S. A., *Instr. Dairying.*  
 George L. Converse, Capt., U. S. A. (Retired), *Mil. Sci. and Tactics.*  
 Olive B. Jones, B. A., *Libr.*  
 Alice Littlejohn, M. D., *Dir. of Phys. Ed. for Women.*  
 H. S. Wingert, M. D., *Dir. of Phys. Ed. for Men.*  
 Clinton I. Grant, B. S. A., *Asst. in Agron.*  
 H. J. Bower, *Asst. in Agron.*  
 Jas. H. Snook, *Asst. in Vet. Med.*  
 Anna F. Blohm, B. L., B. S., *Asst. in Dom. Art.*  
 R. A. Scothorn, *Asst. in Vet. Med.*  
 W. Eugene Ruth, B. S. A., *Asst. in Agr. Chem.*  
 T. D. Phillips, B. S. A., *Asst. in Rural Econ.*

## Agricultural Extension.

A. B. Graham, *Supt.*  
 J. H. Gourley, B. S., (*Asst.*) *Hort.*  
 G. A. Bricker, A. M., *Asst. in Agr. Ed.*  
 Harry Evans, B. S. A., *Asst. in Animal Husb.*  
 A. S. Neale, *Asst. in Dairying.*  
 O. M. Johnson, B. S. A., *Asst. in Agr. Chem.*  
 W. H. Darst, B. S. A., *Asst. in Agr. Chem.*

Myron A. Bachtell, B. S. A., *Asst. in Agr. Chem.*  
 Mary Edmonds, B. S. in D. S., *Asst. in Dom. Sci.*  
 Elizabeth Jefferson, B. S. in D. S., *Asst. in Dom. Sci.*  
 Mabel Miskimen, B. S. in D. S., *Asst. in Dom. Sci.*  
 Clare West, B. S. in D. S., *Asst. in Dom. Sci.*  
 H. E. Eswine, *Asst.*  
 C. D. Steiner, B. S., *Asst.*

## Ohio Agricultural Experiment Station, Wooster.

## GOVERNING BOARD.

Board of control: D. L. Sampson (*Pres.*), *Cincinnati*; Frank B. Blood, *Conneaut*; G. E. Scott, *Mount Pleasant*; H. L. Goll (*Sec.*), *Swanton*; J. D. Gutbery (*Treas.*), *Marion*.

## STATION STAFF.

Chas. E. Thorne, M. S. A., *Dir.; Dairying, Soils.*  
 W. J. Green, V. Dir.; *Hort., Consulting For.*  
 Augustine D. Selby, B. S., *Bot.*  
 C. G. Williams, *Agron.*  
 John W. Ames, M. S., *Chem.*  
 Harry A. Gossard, M. S., *Ent.*  
 B. E. Carmichael, B. S., *Animal Husb.*  
 L. H. Goddard, C. E., *Coop. Work.*  
 E. B. Forbes, Ph. D., *Nutr.*  
 T. F. Manns, M. S., *Asst. Soil Bact.*  
 Edmund Seerest, B. S., *For.*  
 W. H. Kramer, *Bursar.*  
 Frank H. Ballou (*Newark*), *Asst. Hort., in charge Ext.*  
 Paul Thayer, B. S., *Asst. Hort.*  
 Ernest J. Riggs, M. S., *Asst. Hort.*  
 J. S. Houser, B. S., *Asst. Ent.*

W. H. Goodwin, B. S., *Asst. Ent.*  
 R. D. Whitmarsh, M. S., *Asst. Ent.*  
 F. A. Welton, B. S., *Asst. Agron.*  
 J. W. Hammond, M. S., *Asst. Animal Husb. (Wool Invest.)*  
 G. R. Eastwood, B. S. A., *Asst. Animal Husb.*  
 Ross M. Sherwood, B. S., *Asst. Animal Husb. (Poultry Invest.)*  
 M. O. Bugby, B. S., *Asst. Expt.*  
 W. A. Lloyd, B. S., *Asst. Expt.*  
 W. M. Cook, A. B., *Asst. Expt.*  
 W. L. Elser, B. S., *Asst. Expt.*  
 J. J. Crumley, Ph. D., *Asst. For.*  
 Geo. R. Green, B. A., *Asst. For.*  
 True Houser (*Germantown*), *Asst. Bot.*  
 E. G. Arzberger, Ph. B., M. A., *Asst. Bot.*

W. O. Gloyer, M. A., *Asst. Bot.*  
 E. W. Gaither, B. S., *Asst. Chem.*  
 G. E. Boltz, B. S., *Asst. Chem.*  
 J. G. Humphrey, B. S., *Asst. Chem. (Soil Invest.).*  
 M. F. M. Beegle, B. S., *Asst. Chem. (Nutr. Invest.).*  
 J. A. Stenius, B. S., *Asst. Chem.*  
 A. E. Perkins, M. S., *Asst. Chem. (Dairy Invest.).*  
 Anthony Russ, *Herdsmen.*  
 R. C. Collison, M. S., *Asst. in Nutr.*  
 M. Helen Keith, M. A., *Asst. in Nutr.*  
 J. E. Mensching, *Asst. in Nutr.*  
 Paul A. Davis, B. S., *Asst. Bot.*  
 Fred K. Mathis, *Asst. Bot.; Clerk.*  
 J. Warren Smith,<sup>1</sup> *Honorary Climat.*

R. C. E. Wallace, B. S., *Field Asst. in Soils.*  
 Chas. McIntire, *Field Asst. (County Expt. Farms).*  
 Geo. N. Coffey, Ph. D., *Coop. Agr. Survey.*  
 D. W. Galehouse, *Asst. in Coop. (Fair Exhibits).*  
 Edward Mohn, *Supt. Test Farm, Strongsville.*  
 Lewis Schultz, *Supt. Test Farm, Carpenter.*  
 Henry M. Wachter, *Supt. Test Farm, Germantown.*  
 William Holmes, *Farm Foreman.*  
 C. A. Patton, *Asst. Foreman; Met.*  
 Ora Flack, *Foreman of Orchards.*  
 W. E. Bontrager, *Foreman of Grounds.*  
 C. G. Laper, *Foreman of Greenhouse.*  
 C. H. Lebold, *Asst. Foreman.*

## OKLAHOMA.

## Oklahoma Agricultural and Mechanical College, Stillwater.

G. T. Bryan (*Pres.*), *Oklahoma City*; Dan Diehl (*V. Pres.*), *Gotebo*; R. F. Wilson (*Treas.*), *Valliant*; O. A. Brewer, *Helena*; A. C. Cobb, *Wagoner*; J. W. L. Corley, *Howe*; J. C. Elliott, *Pauls Valley*; L. G. Griffin, *Marlow*; Geo. H. Hinds, *Westville*; Ewers White, *McLoud*.

## COURSES OF STUDY.

There are 4-year courses of study in science and literature, agriculture, domestic science and art, mechanical, architectural and civil, and electrical engineering (B. S.); a 4-year normal course; a 2-year course in agriculture and domestic science; a 1-year course in agriculture, and a 1-year business course; a special 10 weeks' winter term in agriculture and dairying; a 4 weeks' course in cotton grading and a 4 weeks' dairy course; a 6 weeks' summer normal institute; a reading course in agriculture; a farmers' week, and a 1-week school of agriculture and domestic science.

## BOARD OF INSTRUCTION.

J. H. Connell, M. S., *President.*

Lowery L. Lewis, M. S., D. V. M., *Zool., Vet. Sci.*  
 R. E. Chandler, M. M. E., *Engin., Phys.; Dean of Engin.*  
 Roy C. Potts, B. S., *Dairying.*  
 W. W. Johnston, A. M., *Engl.; Dean of Sci. and Lit. Div.*  
 B. C. Pittuck, B. S., *Dean of Ext. Work and District Agr. Schools.*  
 W. A. Linklater, B. S. A., *Animal Husb.; Dean of Agr.*  
 T. M. Jeffords, *Agr. for Oklahoma Schools.*  
 Hardee Chambliss, Ph. D., *Chem.*  
 Carl Gunderson, Ph. D., *Math.*  
 C. E. Sanborn, M. A., *Ent.*  
 J. H. Bowers, Ph. D., *Pedag., Hist.*  
 N. O. Booth, B. S., *Hort., Bot.*  
 G. F. Broemel, A. M., *German, Lat.*  
 T. T. Duke, Lieut., U. S. A., *Comdt. of Cadets.*  
 C. F. Watts, M. A., *Polit. Econ., Social Sci.*  
 Omar O. Churchill, B. S., *Agron.*  
 Minnie A. Stoner, B. S., *Dean of Women; Dom. Sci.*  
 Margaret Evans, *Dom. Arts.*  
 Joseph Watson, *Dir. Music.*  
 W. E. Schreiber, A. B., *Dir. Phys. Training for Men.*  
 Annie M. Miller, *Dir. Phys. Training for Women.*  
 H. G. Seldomridge, *Instr. Public Speaking, Asst. in Engl.*  
 Charles I. Bray, M. S., (*Asst.*) *Animal Husb.*  
 A. C. Hartenbower, B. S., (*Asst.*) *Agron.*  
 A. G. DuMez, M. S., (*Asst.*) *Chem.*  
 R. E. Hartsock, B. S., (*Asst.*) *Math.*  
 Ada Hahn, *Instr. Draw., Art Work.*  
 Madge B. Sanders, *Asst. in Music.*  
 C. H. McElroy, B. S., *Asst. in Bact.*  
 Edwin Gallagher, B. S., *Asst. in Phys. Training for Men.*

P. J. Davis, LL. B., *Asst. in Phys. Training for Men.*  
 Iva McBride, B. S., *Asst. in Dom. Sci.*  
 Ralph McBurney, B. S., *Asst. in Chem.*  
 D. C. Mooring, M. S., *Asst. in Hort., Bot.*  
 Z. N. Holler, A. B., *Asst. in Math.*  
 Susie Cage, *Asst. in Dom. Arts.*  
 R. V. McBride, *Poultryman.*  
 Carl Ostrum, M. A., *Asst. in Engl.*  
 Ross Miller, B. A., *Asst. in German, Lat.*  
 B. J. Clawson, A. M., *Asst. in Zool., Bact.*  
 H. A. Bittenbender, B. S. A., *Asst. in Animal Husb.*  
 Wilmer G. Stover, A. M., *Asst. in Hort., Bot.*  
 J. M. Cadwallader, B. S., *Asst. in Dairying.*  
 Clark Porter, *Asst. in Music.*  
 Anna M. Risley, *Asst. in Music.*  
 Mary E. Fields, *Asst. in Phys. Training for Women.*  
 T. E. McElroy, B. S., *Asst. in Ent.*  
 G. H. Jamison, B. Pd., *Asst. in Math.*  
 T. C. Rude, *Asst. in Music.*  
 Caroline Edson, *Asst. in Draw., Art Work.*  
 N. W. Rocky, A. B., *Asst. in Engl.*  
 Charles K. Francis, Ph. D., *Agr. Chem.*  
 Cora Miltimore, A. B., *Libr.*  
 E. J. Westbrook, *Supt. Print.*  
 R. O. Baird, B. S., *Asst. in Agr. Chem.*  
 A. A. Jones, M. S. A., *Asst. in Agr. Chem.*  
 R. E. Anderson, B. S., *Registrar.*  
 W. W. Evans, *Farm Supt.*  
 J. L. McKeown, *Financial Sec.*  
 M. McDonald, *Asst. to Comdt. of Cadets.*  
 S. A. Minear, B. S., *Asst. Agr. for Oklahoma Schools.*  
 J. W. Wilkinson, A. M., *Supervisor of Boys' and Girls' Agr. Clubs.*  
 Henrietta Kolshorn, *Supervisor of Boys' and Girls' Clubs.*

<sup>1</sup> In service of U. S. Weather Bureau.



**Oklahoma Agricultural Experiment Station, Stillwater.**

Department of Oklahoma Agricultural and Mechanical College, under the control of the board of regents,

**STATION STAFF.**

James A. Wilson, B. Agr., *Dir.*  
 L. L. Lewis, M. S., D. V. M., *Vet., Bact.*  
 R. C. Potts, B. S., *Dairyman.*  
 W. A. Linklater, B. S. A., *Animal Husb.*  
 C. E. Sanborn, M. A., *Ent.*  
 C. K. Francis, Ph. D., *Chem.*  
 N. O. Booth, B. S., *Hort.*  
 O. O. Churchill, B. S., *Agron.*  
 R. O. Baird, B. S., *Asst. Chem.*

A. A. Jones, M. S. A., *Asst. Chem.*  
 A. H. Wright, B. S., *Asst. Agron.*  
 D. C. Mooring, M. S., *Asst. Hort.*  
 C. I. Bray, M. S., *Asst. Animal Husb.*  
 B. J. Clawson, A. M., *Asst. Bact.*  
 T. E. McElroy, B. S., *Asst. Ent.*  
 E. W. Stafford, B. S. A., *Asst. Ent.*  
 W. W. Evans, *Farm Supt.*

**Agricultural and Normal University, Langston.****GOVERNING BOARD.**

Board of regents: R. H. Wilson (*Pres.*), *Oklahoma City*; Scott Glenn, *Shawnee*; Robert Dunlop (*Treas.*), *Newkirk*; O. F. Hayes, *Chandler*; W. E. Rowsey, *Muskogee*; W. A. Brandenburg, *Oklahoma City*; A. C. Scott, *Oklahoma City*; A. C. Parsons (*Sec.*), *Oklahoma City*.

**COURSES OF STUDY.**

The four-year courses of study are classical (B. A.), scientific (B. S.), normal (B. S. D.), agricultural (B. S. Agr.), electrical and mechanical engineering (B. M. E.), architectural engineering (B. Archi. E.), and commercial (diploma). There are also a three-year college preparatory course, a three-year agricultural course, a two-year commercial course, a one-year agricultural course, courses in nurse training and domestic science and art, and a four-year normal elementary course.

**BOARD OF INSTRUCTION.**

Inman E. Page, A. M., *President.*

James R. Johnson, A. B., *V. Pres.; Political Sci.*  
 Zella N. Breaux, B. S. D., *Instrumental Music.*  
 Mary L. McCrary, *Dom. Econ.*  
 Horace F. Mitchell, A. B., *Math.*  
 Edward A. Ward, A. B., *Econ.*  
 James A. Dingus, *Agr.*  
 Chas. F. Sneed, A. M., M. D., *Phys. and Nat. Sci.*  
 S. R. Youngblood, A. M., *Engl. Lang. and Lit.*  
 J. R. Hogan, *Hist.*

Gilbert H. Jones, Ph. D., *Latin, Greek.*  
 Samuel Sadler, *Engl.*  
 Margaret Ritchey, *Dom. Sci.*  
 S. J. Richards, *Woodworking.*  
 Nelson A. Jones, *Mach. Work.*  
 Wm. W. Pearson, *Blacksm.*  
 Daisy Toombs, *Engl. Branches.*  
 Mary J. McCain, *Dom. Econ.*  
 P. T. Zeigler, *Farm Supt.*

**OREGON.****Oregon State Agricultural College, Corvallis.****GOVERNING BOARD.**

Board of regents: J. K. Weatherford (*Pres.*), *Albany*; J. T. Apperson, *Parkplace*; B. F. Irvine (*Treas.*), *724 Broadway, Portland*; Mrs. Clara H. Waldo, *Bowers Hotel, Portland*; Gov. Oswald West (*ex officio*), *Salem*; Ben W. Olcott (*Sec. of State, ex officio*), *Salem*; L. R. Alderman (*State Supt. of Public Instr., ex officio*), *Salem*; Wm. W. Cotton, *\* Wells-Fargo Building, Portland*; Walter M. Pierce, *\* La Grande*; John D. Olwell, *\* Medford*; C. E. Spence (*Master of State Grange*), *Canby*; E. E. Wilson (*Sec.*), *Corvallis*; C. L. Hawley, *McCoy*.

**COURSES OF STUDY.**

There are nine four-year courses of study, viz: Agriculture, mechanical engineering, civil engineering, electrical engineering, mining engineering, domestic science and art, commerce, pharmacy, and forestry (B. S.); two-year secondary industrial courses in agriculture, mechanic arts, domestic science and art, commerce, and forestry; a two-year course in pharmacy; a course in industrial pedagogy; a course in music; short winter courses of four weeks each in general agriculture, agronomy, animal husbandry, poultry husbandry, dairying, horticulture, forestry, mechanic arts, and domestic science and art; a six weeks' summer school for teachers, a one-week agricultural course for farmers, a reading course in poultry husbandry, and correspondence courses in business methods on the farm.

**BOARD OF INSTRUCTION.**

William J. Kerr, D. Sc., *President.*

James Withycombe, M. Agr., *Animal Husb.; in charge of Farmers' Insts.*  
 Arthur B. Cordley, M. S., *Dean, School of Agr.; Zool., Ent.*  
 Grant A. Covell, M. E., *Dean School of Engin. and Mech. Arts.; Mech. Engin.*  
 John A. Bexell, A. M., *Dean School of Commerce; Business Administration.*  
 Edwin D. Ressler, A. M., *Indus. Pedag.*

Anna Z. Crayne, A. B., M. D., *Dean of Women.*  
 Frederick Berchtold, A. M., *Engl. Lang. and Lit.*  
 John B. Horner, A. M. Litt. D., *Hist., Polit. Sci.*  
 John Fulton, M. S., *Gen. and Anal. Chem.*  
 Claude I. Lewis, M. S. A., *Hort.*  
 Fred L. Kent, B. Agr., *Dairy Husb.*  
 Charles L. Johnson, B. S., *Math.*  
 James Dryden, *Poultry Husb.*  
 Henry D. Scudder, B. S., *Agron.*



William F. Gaskins, B. S., *Music*.  
 William A. Jensen, *Recorder of Faculties*.  
 George W. Peavy, M. S., *For*.  
 Farley D. McLouth, B. S., *Art*.  
 Willibald Weniger, Ph. D., *Phys*.  
 Ralph D. Hetzel, A. B., LL. B., *Public Speaking*.  
 Herbert S. Jackson, A. B., *Bot., Plant Path*.  
 Louis Bach, M. A., *Mod. Lang*.  
 Ida A. Kidder, A. B., B. L. S., *Libr*.  
 Ermine L. Potter, B. S., *Animal Husb*.  
 Theodore D. Beckwith, M. S., *Bact*.  
 Helen B. Brooks, *Dom. Art*.  
 William C. Miller, Lieut., U. S. A., *Mil. Sci. and Tactics: Comdt*.  
 Victor R. Gardner, M. S., (*Assoc.*) *Hort., Pomol*.  
 Ida B. Callahan, B. S., (*Asst.*) *Engl. Lang. and Lit*.  
 Nicholas Tartar, B. S., (*Asst.*) *Math*.  
 Elmer P. Jackson, B. S., (*Asst.*) *Tech. Woodwork*.  
 George R. Hyslop, B. S., (*Asst.*) *Agron*.  
 Arthur G. B. Bouquet, B. S., (*Asst.*) *Veg. Gard*.  
 Jules F. Morel, M. D. C., (*Asst.*) *Vet. Sci*.  
 Harold M. Tennant, *Registrar*.  
 Hector Macpherson, Ph. D., (*Asst.*) *Polit. Econ*.  
 Eva B. Milam, M. S., (*Asst.*) *Dom. Sci*.  
 Edward J. Kraus, B. S., *Research Asst. in Hort*.  
 Hailey F. Wilson, B. S., *Research Asst. in Ent*.  
 Victor I. Saforo, B. S. A., *Research Asst. in Ent*.  
 Harry L. Beard, B. S., *Instr. Math*.  
 Loren B. Baldwin, A. M., *Instr. Engl. Lang. and Lit*.  
 William M. Porter, *Instr. Forging*.  
 Winifred M. Williams, B. Ph., *Instr. Engl. Lang. and Lit.: Phys. Culture for Women*.  
 Edward B. Beaty, B. S., *Instr. Math*.  
 Earl P. Barding, B. S., *Instr. Chem*.  
 Otto G. Simpson, B. S., *Instr. Dairy Husb*.  
 Renton K. Brodie, M. S., *Instr. Gen. and Anal. Chem*.  
 Edgar R. Shepard, A. M., *Instr. Phys*.  
 Robert H. Rodgers, B. S., *Instr. Pattern Making*.

Gertrude E. McElfresh, A. B., *Instr. Engl. Lang. and Lit*.  
 Myrtle E. Knepper, B. S., *Asst. Libr*.  
 Milo R. Daughters, A. M., *Instr. Chem*.  
 Wilbur L. Powers, M. S., *Instr. Agron*.  
 Alice L. Edwards, B. S., *Instr. Zool*.  
 James G. Arbutnot, B. S., *Instr. Phys. Ed. for Men*.  
 George R. Samson, B. S., A. B., *Instr. Animal Husb*.  
 Edith C. Kuny, A. B., *Instr. Mod. Lang*.  
 William E. Lawrence, B. S., *Instr. Bot*.  
 Clifton L. Flint, B. S., *Instr. Landscape Gard*.  
 George F. Sykes, M. A., *Instr. Zool*.  
 Grace Campbell, B. S., *Instr. Math*.  
 Ray H. Dobell, A. B., *Instr. Art*.  
 Frances Houston, B. S., *Instr. Phys. Ed. for Women*.  
 Luey M. Lewis, A. B., B. L. S., *Libr. Cataloguer*.  
 Alfred G. Lunn, *Instr. Poultry Husb*.  
 John M. Speidel, B. S., *Instr. Hort*.  
 Fred V. Tooley, B. S., *Instr. Hort*.  
 Edith B. Seleen, B. S., *Instr. Dom. Art*.  
 E. P. Walls, M. S., *Instr. Bot., Plant Path*.  
 Mrs. Margaret D. Macpherson, S. B., *Instr. Bot*.  
 Harold S. Newins, M. S. F., *Instr. For*.  
 Esther V. Leech, B. S., *Instr. Dom. Art*.  
 Floyd Rowland, B. S., *Asst. in Chem*.  
 Bertha Herse, B. S., *Asst. Libr*.  
 Ruth M. Smith, B. S., *Asst. in Dom. Sci*.  
 Bert Pilkington, B. S., *Research Asst. in Chem*.  
 Ralph W. Rees, B. S., *Research Asst. in Hort*.  
 Frank R. Brown, B. S., *Research Asst. in Hort*.  
 Lyman Bundy, B. S., *Research Asst. in Chem*.  
 Floyd D. Bailey, A. B., *Research Asst. in Plant Path*.  
 Frederick C. Bradford, M. S., *Research Asst. in Hort*.  
 H. E. Ewing, Ph. D., *Research Asst. in Ent*.  
 A. L. Lovett, B. S., *Research Asst. in Ent*.  
 E. R. Stockwell, B. S., *Research Asst. in Dairy Husb*.  
 R. H. Robinson, A. B., *Research Asst. in Chem*.  
 Charles E. Robinson, *Farm Foreman*.

#### Oregon Experiment Station, Corvallis.

Department of Oregon State Agricultural College, under the control of the board of regents.

#### STATION STAFF.

James Withycombe, M. Agr., *Dir.: Animal Husb*.  
 A. B. Cordley, M. S., *Agr., Ent*.  
 C. I. Lewis, M. S. A., *Hort*.  
 H. S. Jackson, A. B., *Plant Path., Bot*.  
 H. D. Scudder, B. S., *Agron*.  
 James Dryden, *Poultry Husb*.  
 T. D. Beckwith, M. S., *Bact*.  
 F. L. Kent, B. Agr., *Dairy Husb*.  
 V. R. Gardner, M. S., *Assoc. Hort., Pomol*.  
 E. J. Kraus, B. S., *Research Asst. in Hort*.  
 A. G. B. Bouquet, B. S., *Oler*.  
 R. W. Rees, B. S., *Research Asst. in Hort*.  
 F. R. Brown, B. S., *Research Asst. in Hort*.  
 F. C. Bradford, M. S., *Research Asst. in Hort*.  
 R. W. Allen, B. S., *Asst. Hort.; Supt. Umatilla Branch Expt. Sta., Hermiston*.  
 L. L. Beaty, *Hort., Umatilla Branch Expt. Sta., Hermiston*.  
 F. C. Reimer, M. S., *Supt. Southern Oregon Branch Expt. Sta., Medford*.  
 F. V. Tooley, B. S., *Orchard Foreman*.  
 George Reiben, B. S., *Hort., Eastern Oregon Substa., Union*.

H. F. Wilson, M. S., *Research Asst. in Ent*.  
 V. I. Saforo, B. S. A., *Research Asst. in Ent*.  
 A. L. Lovett, B. S., *Research Asst. in Ent*.  
 H. E. Ewing, Ph. D., *Lab. Asst. in Ent. Research*.  
 F. D. Bailey, A. B., *Research Asst. in Plant Path., Bot*.  
 H. L. Rees, A. B., *Research Asst. in Plant Path., Bot*.  
 G. R. Hyslop, B. S., *Asst. Agron*.  
 W. L. Powers, M. S., *Asst. Agron*.  
 H. V. Tartar, B. S., *Acting Chem*.  
 Lyman Bundy, B. S., *Asst. Chem*.  
 Bert Pilkington, B. S., *Asst. Chem*.  
 R. H. Robinson, A. B., *Asst. Chem*.  
 G. V. Copson, *Asst. Bact*.  
 Otto G. Simpson, B. S., *Asst. Dairy Husb*.  
 Robert Withycombe, B. S., *Supt. Eastern Oregon Substa., Union*.  
 D. E. Stephens, B. S., *Supt. Eastern Oregon Dry-Farm Substa., Moro*.  
 L. R. Breithaupt, *Supt. Branch Expt. Sta., Harney*.  
 C. E. Robinson, *Farm Foreman*.  
 C. C. Lamb, *Foreman Poultry Plant*.  
 M. A. McCall, B. S., *Asst. Agron.; Farm Foreman*.

## PENNSYLVANIA.

## The Pennsylvania State College, State College.

## GOVERNING BOARD.

Board of trustees: James A. Beaver\* (*Pres.*), *Bellefonte*; Edwin E. Sparks\* (*ex officio Sec.*), *State College*; Gov. John K. Tener (*ex officio*), *Harrisburg*; Nathan C. Schaeffer (*ex officio, Supt. of Public Instr.*), *Harrisburg*; N. B. Critchfield (*ex officio, Sec. State Bd. of Agr.*), *Harrisburg*; Charles M. Schwab, *Pittsburgh*; H. Walton Mitchell (*V. Pres.*), *Pittsburgh*; James L. Hamill, *Columbus, Ohio*; John F. Shields, *Philadelphia*; Lloyd B. Huff, *Greensburg*; Geo. M. Downing, *Philadelphia*; Gabriel Hiester\*, *Harrisburg*; Geo. G. Hutchison, *Warriors Mark*; Augustus C. Read, *Pittsburgh*; James G. White, 43 Exchange Place, *New York City*; E. S. Bayard\*, *Pittsburgh*; Marlin E. Olmsted, *Harrisburg*; Andrew Carnegie, *Pittsburgh*; H. V. White\*, *Bloomsburg*; William F. Hill\*, *Huntingdon*; Ellis L. Orvis, *Bellefonte*; James E. Quigley, *Pittsburgh*; William H. Walker, *Newtonville, Mass.*; Thomas W. Barlow, *Philadelphia*; Milton W. Lowry, *Scranton*; S. O. Frantz, *Rohrerstown*; V. C. McCormick\*, *Harrisburg*; Wm. H. Patterson, *Clearfield*; Wm. T. Creasy, *Catawissa*; Franklin Menges, *York*; J. T. Ailman, *Thompsonstown*; John I. Thompson, jr. (*Treas.*), *State College*.

## COURSES OF STUDY.

The courses of study, each requiring four years for completion unless otherwise specified, are as follows: Classical, history and political science, mathematics, natural science, industrial art, modern languages, philosophy and education, preparatory to law (B. A.); agricultural chemistry, agronomy, animal husbandry, dairy husbandry, forestry, horticulture, landscape gardening, botany, architectural engineering, civil engineering, electrical engineering, electrochemical engineering, highway engineering, industrial engineering, mechanical engineering, railway mechanical engineering, milling engineering, sanitary engineering, mining engineering, metallurgical engineering, mining geology, manual training, biology, chemistry, industrial chemistry, physics, preparatory to medicine, home economics (B. S.); a two-year course in agriculture and a two-year teachers' course in manual training; a one-year teachers' course in agriculture; short courses (twelve weeks) in agriculture, dairying, creamery work, home economics, horticulture, and poultry husbandry; correspondence courses in agriculture; postgraduate courses; a six weeks' summer session for teachers, and a farmers' week.

## BOARD OF INSTRUCTION.

Edwin Erle Sparks, Ph. D., LL.D., *President*.

William A. Buckhout, D. Sc., *Bot.*  
William Frear, Ph. D., *Expt. Agr. Chem.*  
George G. Pond, Ph. D., *Chem.; Dir. Chem. Lab.; Dean School of Nat. Sci.*  
Henry P. Armsby, Ph. D., LL.D., *Dir. Institute of Animal Nutr.*  
Benjamin Gill, M. A., D. D., *Greek, Lat.; Chaplain.*  
Thos. F. Hunt, D. Agr., D. Sc., *Dean School of Agr.*  
Sara C. Lovejoy, B. A., *Dean of Women.*  
Erwin W. Runkle, Ph. D., *Psych. and Ethics.*  
Joseph M. Willard, B. A., *Math.*  
Fred L. Pattee, M. A., *Engl. Lang. and Lit.*  
Carl D. Fehr, M. A., *German.*  
Irving L. Foster, M. A., *Romance Lang.*  
Edgar A. Fry, Capt., U. S. A., *Mil. Sci. and Tactics.*  
Hubert E. Van Norman, B. S., *Dairy Husb.*  
Perley O. Ray, Ph. D., *Hist. and Polit. Sci.*  
Alva Agee, B. A., M. S., *Agr. Ext.; Prin. of Short Courses; Sec. School of Agr.*  
Ralph L. Watts, B. Agr., M. S., *Hort.*  
Frank D. Gardner, B. S., *Agron.*  
Chas. W. Stoddart, Ph. D., *Agr. Chem.*  
Thomas I. Mairs, B. Agr., M. S., *Agr. Ed.; Supt. of Corresp. Courses.*  
William R. Ham, Ph. D., *Phys.*  
Wilbur A. Cochel, B. A., B. S., *Animal Husb.*  
Jos. H. Tudor, C. E., M. S., (*Assoc.*) *Math.*  
A. Howry Espenshade, M. A., (*Assoc.*) *Engl., Rhet.; Registrar.*  
H. Freeman Stecker, Ph. D., (*Assoc.*) *Math.*  
Madison M. Garver, B. S., (*Assoc.*) *Phys.*

Harry R. Fulton, M. A., (*Assoc.*) *Bot.*  
Jesse B. Churchill, B. S., (*Assoc.*) *Indus. Chem.*  
John P. Stewart, M. S. A., (*Assoc.*) *Expt. Pomol.*  
Anna E. Redifer, (*Asst.*) *Indus. Art and Design.*  
Walter J. Keith, Ph. D., (*Asst.*) *Org. Chem.*  
J. H. Frizzell, B. A., (*Asst.*) *Engl., Public Speaking.*  
Elizabeth B. Meek,<sup>1</sup> M. S., (*Asst.*) *Bact.*  
Wilber R. McConnell, M. S., (*Asst.*) *Zool.*  
Milton S. McDowell, M. S., (*Asst.*) *Agr. Ext.*  
William D. Crockett, M. A., (*Asst.*) *Latin, Public Speaking; Sec.*  
Chas. F. Shaw, B. S., (*Asst.*) *Agron.*  
Carl W. Larson, B. S. A., (*Asst.*) *Dairy Husb.*  
Margaret B. MacDonald,<sup>1</sup> Ph. D., (*Asst.*) *Agr. Chem.*  
Guy C. Given, M. S., (*Asst.*) *Expt. Agr.*  
Geo. K. Pattee, M. A., (*Asst.*) *Rhet.*  
Geo. A. Whittemore, B. A., (*Asst.*) *Math.*  
V. L. Logo, B. S., (*Asst.*) *Quantitative Anal.*  
Lucretia Van T. Simmons, Ph. B., M. A., (*Asst.*) *German.*  
Edwin R. Smith, Ph. D., (*Asst.*) *Math.*  
Wm. D. Clark, B. A., M. F., (*Asst.*) *For.*  
John W. Gregg, B. S., (*Asst.*) *in Hort.*  
Julia C. Gray, *Libr.*  
Charles F. Noll, B. S., *Expt. Agron.*  
Enna A. McFeely, *Instr. Indus. Art.*  
Thomas E. Gravatt, B. S., *Instr. Math.*  
E. V. Gage, M. A., *Instr. Romance Lang.*  
Paul D. Potter, B. A., *Instr. Phys. Chem.*  
Fred J. Kaufman, B. S., *Instr. Gen. Chem.*  
J. W. Clark,<sup>1</sup> B. S., *Instr. Poultry Husb.*

<sup>1</sup> On leave.

William S. Dye, jr., M. A., *Instr. Engl.*  
 Samuel W. Niederhauser, M. A., *Instr. Math.*  
 Arthur L. Wright, B. Ph., *Instr. Math.*  
 George F. Zook, M. A., *Instr. Hist.*  
 Wm. J. Wright, B. S., *Instr. Hort.*  
 J. Ben Hill, B. A., B. S., *Instr. Bot.*  
 Homer W. Jackson, *Instr. Poultry Husb.*  
 Lewis E. Armstrong, Ph. B., *Instr. Math.*  
 Leslie M. Burrage, B. A., *Instr. French.*  
 Edmund P. Davis, B. A., *Instr. Math.*  
 J. Frank Jones, B. A., *Instr. Engl.*  
 Carl E. Marquardt, B. A., *Instr. German.*  
 L. J. Lassalle, B. S., *Instr. Phys.*  
 Mervin J. Curl, M. A., *Instr. Engl.*  
 Elizabeth B. Bower, B. S., *Instr. Dom. Sci., Chem.*  
 Robt. S. Prichard, B. S., *Instr. Chem.*  
 Oswald F. Boucke, M. A., *Instr. German, Hist.*  
 Jos. L. Appleton, jr., B. S., *Instr. Chem.*  
 Milton W. Eddy, B. S., *Instr. Zool., Ent.*  
 Elizabeth Meguiar, *Instr. Dom. Art.*  
 V. Ray Jones, B. S., *Instr. German.*  
 Richard Sheib, M. A., *Instr. German.*  
 B. O. Severson, B. S., *Instr. Animal Husb.*  
 George D. Whedon, M. S., *Instr. Chem.*  
 Thos. W. Mason, B. S., *Instr. Chem.*  
 W. H. Barber, A. B., *Instr. Math.*  
 E. J. Brown, Ph. D., *Instr. Econ.*  
 R. R. Chaffee, A. B., M. F., *Instr. For.*  
 J. B. Berry, B. S., *Instr. For.*  
 H. L. Harley, B. A., *Instr. Engl.*  
 C. C. Kochenderfer, B. A., *Instr. Hist.*  
 R. P. More, B. A., *Instr. German.*

T. C. Pease, B. A., *Instr. Hist.*  
 P. I. Pierson, B. S., *Instr. Phys.*  
 Florence E. Ritter, B. S., *Instr. Dom. Sci.*  
 O. F. Smith, B. S., *Instr. Phys.*  
 R. D. Spencer, B. S., *Instr. Zool.*  
 F. A. Varrelman, B. S., *Instr. Zool.*  
 W. R. White, B. A., B. S., *Instr. Agr. Ed.*  
 Warren G. Ross, B. S. A., *Instr. Agron.*  
 Walter E. Tripp, *Instr. Bact.*  
 W. H. McIntire, M. S., *Asst. in Expt. Agron.*  
 Chas. E. Myers, M. S., *Asst. in Hort.*  
 Walter A. Cook, *Asst. in Dairy Husb.*  
 Ralph A. Waldron, B. S., *Asst. in Bot.*  
 Edw. K. Hibshman, B. S., *Field Asst. in Expt. Agr. Chem.*  
 Edward S. Erb, M. S., *Asst. in Chem.*  
 Frank P. Knoll, *Asst. in Butter Making.*  
 Frank P. Weaver, *Asst. in Agr. Chem.*  
 H. F. Hershey, B. S., *Asst. in Expt. Hort.*  
 A. Benj. Werby, *Asst. in Agr. Chem.*  
 Walter B. Nissley, B. S., *Asst. in Hort.*  
 J. F. Adams, B. S., *Asst. in Bot.*  
 J. F. Clevenger, M. A., *Asst. in Bot.*  
 J. W. Duckett, B. S., *Asst. in Chem.*  
 H. H. Havner, B. S., *Asst. in Vet. Med.*  
 W. W. Reitz, B. S., *Asst. in Agron.*  
 R. V. Mitchell, B. S., *Asst. in Poultry Husb.*  
 C. A. Smith, B. S., *Asst. in Chem.*  
 J. R. Winston, B. S., *Asst. in Agr.*  
 C. L. Goodling, B. S., *Supt. of Farm.*  
 Harry D. Edmiston, *Lab. Asst.*

### The Pennsylvania State College Agricultural Experiment Station, State College.

Department of the Pennsylvania State College, under the control of the board of trustees.

#### STATION STAFF.

Thos. F. Hunt, D. Agr., D. Sc., *Dir.*  
 Wm. A. Buckhout, D. Sc., *Bot.*  
 William Frear, Ph. D., *V. Dir.; Expt. Agr. Chem.*  
 H. E. Van Norman, B. S., *Dairy Husb.*  
 Alva Agee, B. A., M. S., *Agr. Ext.*  
 R. L. Watts, B. Agr., M. S., *Hort.*  
 F. D. Gardner, B. S., *Agron.*  
 T. I. Mairs, B. Agr., M. S., *Agr. Ed.*  
 W. A. Cochell, B. A., B. S., *Animal Husb.*  
 H. R. Fulton, M. A., *Bot.*  
 J. P. Stewart, M. S. A., *Expt. Hort.*  
 Julia C. Gray, *Libr., Mailing Clerk.*  
 C. L. Goodling, B. S., *Farm Supt.*  
 M. S. McDowell, M. S., *Agr. Ext.*  
 Elizabeth B. Meek,<sup>1</sup> M. S., *Bact.*  
 C. F. Shaw, B. S., *Agron.*  
 C. W. Larson, B. S. A., *Dairy Husb.*  
 Margaret B. MacDonald,<sup>1</sup> Ph. D., *Agr. Chem.*  
 J. B. Hill, B. A., B. S., *Bot.*  
 W. D. Clark, B. A., M. F., *For.*  
 H. W. Jackson, *Poultry Husb.*  
 W. J. Wright, B. S., *Hort.*  
 G. C. Given, M. S., *Asst. Expt. Agr. Chem.*  
 C. F. Noll, B. S., *Asst. Expt. Agron.*  
 W. H. McIntire, M. S., *Asst. Expt. Agron.*  
 C. E. Myers, M. S., *Asst. Expt. Hort.*

E. S. Erb, M. S., *Asst. Chem.*  
 W. G. Ross, B. S. A., *Asst. Agron.*  
 J. W. Gregg, B. S., *Asst. Hort.*  
 E. K. Hibshman, B. S., *Field Asst. in Expt. Agr. Chem.*  
 W. E. Tripp, *Asst. Agron.*  
 F. P. Weaver, *Asst. in Agr. Chem.*  
 Walter Thomas, B. S., *Asst. Chem.*  
 L. G. Willis, B. S., *Asst. Chem.*  
 B. O. Severson, B. S., *Asst. Animal Husb.*  
 F. P. Knoll, *Asst. in Butter Making.*  
 H. F. Hershey, B. S., *Asst. in Expt. Pomol.*  
 J. B. Berry, B. S., *Asst. For.*  
 R. R. Chaffee, A. B., M. F., *Asst. For.*  
 W. B. Nissley, B. S., *Asst. Hort.*  
 W. A. Cook, *Asst. Dairy Husb.*  
 R. V. Mitchell, B. S., *Asst. Poultry Husb.*  
 J. F. Adams, B. S., *Asst. Bot.*  
 J. F. Clevenger, M. A., *Asst. Bot.*  
 H. H. Havner, D. V. M., *Asst. in Sanitation and Hyg.*  
 J. W. Duckett, B. S., *Asst. in Expt. Agr. Chem.*  
 W. W. Reitz, B. S., *Asst. Agron.*  
 C. A. Smith, B. S., *Asst. Agr. Chem.*  
 A. B. Werby, *Asst. Agr. Chem.*  
 J. R. Winston, B. S., *Asst. Bot.*  
 H. D. Edmiston, *Lab. Asst.*

<sup>1</sup> On leave.



**The Pennsylvania State College Institute of Animal Nutrition, State College.**

Department of the Pennsylvania State College, under the control of the board of trustees.

**INSTITUTE STAFF.**

H. P. Armsby, Ph. D., LL. D., *Dir.*

J. A. Fries, M. S., *Asst. Dir.*

Winfred W. Braman, M. S., *Asst. in Animal Nutr.*

J. H. Hamilton, B. S., *Asst. in Animal Nutr.*

D. C. Cochrane, B. S., *Asst. in Animal Nutr.*

J. McL. Ridgill, B. S., *Asst. in Animal Nutr.*

K. K. Jones, B. A., *Asst. in Animal Nutr.*

**PORTO RICO.****Porto Rico Agricultural Experiment Station, Mayaguez.**

Under the supervision of A. C. True, Director Office of Experiment Stations, United States Department of Agriculture.

**STATION STAFF.**

D. W. May, M. Agr., *Special Agent in Charge.*

Philip L. Gile, A. B., *Chem.*

G. L. Fawcett, B. S., *Plant Path.*

C. F. Kinman, B. S., *Hort.*

C. W. Hooker, Ph. D., *Ent.*

E. G. Ritzman, B. S. A., *Animal Husb.*

C. N. Ageton, B. S., *Asst. Chem.*

Thos. B. McClelland, A. B., *Asst. Hort.*

Wm. E. Hess, *Expert Gard.*

**Porto Rico Sugar Producers' Experiment Station, Rio Piedras.****GOVERNING BOARD.**

Board of directors of the Porto Rico Sugar Producers' Association: Eduardo Giorgetti (*Pres.*), Ramón Aboy Benitez (*V. Pres.*), Ramón H. Delgado (*Treas.*), Augustin Navarrete (*Sec.*), Jorge Bird Arias, T. J. Waymouth, Antonio P. Valdivieso, A. J. Grief, P. McLane, Rafal Fabián, Luis Rubert, Arturo Quintero.

**STATION STAFF.**

J. T. Crawley, B. A., *Dir.*

D. L. Van Dine, B. S. A., *Ent.*

J. R. Johnston, M. S., *Path.*

Fritz Zerban, Ph. D., *Chem.*

T. H. Lougher, *Field Supt.*

H. B. Cowgill, M. S. A., *Asst. Path.*

T. H. Jones, B. S., *Asst. Ent.*

**RHODE ISLAND.****Rhode Island State College, Kingston.****GOVERNING BOARD.**

Board of managers: Chas. D. Kimball\* (*Pres.*), *Providence*; W. E. Ranger\* (*ex officio*, *State Comr. of Schools*, *V. Pres.*); T. G. Mathewson,\* *East Greenwich*; Philip A. Money\* (*State Bd. of Agr.*), *Slocum*; Robert S. Burlingame\* (*Clerk*, *Treas.*), *Newport*; Jesse V. Watson,\* *Wakefield*; Charles Estes,\* *Warren*.

**COURSES OF STUDY.**

There are four four-year courses of study, viz: Agricultural, with options in agronomy, horticulture, and animal husbandry; engineering, with options in mechanical, electrical, civil, and chemical engineering; teachers' course in applied science; and home economics (B. S.): a two-year agricultural, mechanic arts, and domestic science course; a poultry school (winter) extending through six weeks, a summer school for teachers covering four weeks, and a farmers' week (in December).

**BOARD OF INSTRUCTION.**

Howard Edwards, M. A., LL. D., *President; Political Economy and Social Science.*

Homer J. Wheeler, Ph. D., D. Sc., *Geol.*

Harriet L. Merrow, M. A., *Bot.; Sec.*

Frank K. Sechrist, Ph. D., *Engl., Mod. Lang.*

George E. Adams, B. S., *Chief Dept. of Agr.; Agron.*

Virgil L. Leighton, Ph. D., *Chem.*

John Barlow, A. M., *Zool.*

Leonard P. Dickinson, B. S., *Phys., Elect. Engin.*

Marshall H. Tyler, B. S., *Math.*

S. H. Webster, B. S., *Civil Engin.*

Burt L. Hartwell, Ph. D., *Agr. Chem.*

F. S. Putney, M. S., *Animal Husb.*

Helen B. Thompson, M. S., *Home Econ.*

Andrew E. Stene, M. S. A., *Supt. College Ext.*

Wm. S. Spencer, B. D. (*Asst.*), *Argumentation and Oral Expression.*

Geo. R. Cobb, B. S. (*Asst.*), *Hort.; Dir. of Athletics.*

Mabel D. Eldred, B. S., *Instr. Draw.*

Howland Burdick, B. S., *Instr. Dairying.*

E. K. Thomas, *Instr. School Gard., Nature Study.*

D. J. Lambert, *Instr. Poultry Husb.; in charge of Poultry Dept.*

Francis H. Smith, Ph. B., M. S., *Instr. Chem.*

Thomas C. Rodman, *Instr. Woodwork.*

Fred J. Godin, *Instr. Hort.; Florist.*

Edward N. Macon, Capt., U. S. A. (Retired), *Mil. Sci. and Tactics.*

Florence H. Myrick, B. S., *Instr. Engl. and Mod. Lang.*

Nellie A. Harrall, B. S., *Instr. Phys. Training for Women.*

Gladys E. Burlingame, A. B., *Instr. Engl. and Mod. Lang.; Libr.*



**Agricultural Experiment Station of the Rhode Island State College, Kingston.**

Department of Rhode Island State College, under the control of the board of managers.

**STATION STAFF.**

H. J. Wheeler, Ph. D., D. Sc., *Dir.*; *Agron.*  
 Burt L. Hartwell, Ph. D., *Chem.*  
 G. E. Adams, B. S., *Hort.*  
 Philip B. Hadley, Ph. D., *Biol.*  
 Carroll H. Magoon, B. S., *Asst. Biol.*  
 S. C. Damon, B. S., *Asst. Agron.*  
 Nathaniel Helme, *Met.*

L. F. Whipple, *Asst. Chem.*  
 F. S. Hammett, A. B., M. S., *Asst. Chem.*  
 R. A. Lichtenthaeler, M. S., *Asst. Chem.*  
 J. E. Seabright, B. A., *Asst. Chem.*  
 F. R. Pember, M. S., *Asst. Plant Physiol.*  
 F. J. Godin, *Asst. Florist.*  
 E. Elizabeth Meeers, *Libr.*

**SOUTH CAROLINA.****Clemson Agricultural College of South Carolina, Clemson College.<sup>1</sup>****GOVERNING BOARD.**

Board of trustees: Alan Johnstone (*Pres.*), *Newberry*; R. W. Simpson, *Endleton*; P. H. E. Sloan (*Sec. and Treas.*), *Clemson College*; M. I. Donaldson, *Greenville*; B. H. Rawl,\* *Washington, D. C.*; B. R. Tillman,\* *Trenton*; W. W. Bradley, *Abbeville*; W. D. Evans,\* *Cheraw*; R. I. Manning,\* *Sumter*; J. E. Wannamaker,\* *St. Matthews*; Ivy M. Mauldin, *Pickens*; J. G. Richards, jr., *Liberty Hill*; C. D. Mann, *West Union*; E. T. Hughes, *Marion*.

**COURSES OF STUDY.**

There are seven four-year courses of study leading to the degree of B. S. viz: In agriculture, agriculture and chemistry, agriculture and animal industry, mechanical and electrical engineering, civil engineering, chemistry and geology, and textile industry; two-year courses in agriculture and in textile industry; a one-year preparatory course, and a special four weeks' cotton-grading course. Special courses are given to farmers and others of mature age who desire to avail themselves of the privileges of the college. A correspondence course in agriculture for teachers and a farmers' short course (four weeks) are also offered.

**BOARD OF INSTRUCTION.**

Walter M. Riggs, E. M. E., LL.D., *President*; *Consulting Professor of Engineering.*

F. H. H. Calhoun, Ph. D., *Sec. Faculty; Geol., Min.*  
 M. Ray Powers, D. V. S., (*Assoc.*) *Vet. Sci.; State Vet.*  
 Archibald Smith, B. S., (*Assoc.*) *Animal Husb. and Dairying.*  
 A. F. Conradi, M. S., (*Assoc.*) *Ent., Bact.; State Ent.*  
 John G. Hall, M. A., (*Assoc.*) *Bot., For.*  
 Clarence C. Vincent, M. S. A., (*assoc.*), *Hort.*  
 Junius M. Burgess, B. S., (*Asst.*) *Agr., Animal Husb. and Dairying.*  
 John McG. Napier, M. S., (*Asst.*) *Agron.*  
 Wilson P. Gee, M. A., M. S., (*Asst.*) *Ent.; Asst. State Ent.*  
 Robert O. Feeley, D. V. S., *Asst. in Vet. Sci.*  
 A. B. Massey, B. S., *Instr. Bact.*  
 L. A. Niven, B. S., *Asst. in Hort.*  
 Samuel B. Earle, M. E., *Dir. Engin. Dept.; Mech. and Elect. Engin.*  
 Hale Houston, C. E., *Civil Engin.*  
 Thomas G. Poats, M. E., (*Assoc.*) *Phys.*  
 Rudolph E. Lee, B. S., (*Assoc.*) *Draw.*  
 Wilson W. Klugh, B. S., (*Asst.*) *Draw.*  
 John W. Gantt, (*Asst.*) *Forge and Foundry Work.*  
 Andrew B. Gardner, (*Asst.*) *Woodwork.*  
 Francis R. Sweeney, B. S., *Instr. Civil Engin.*  
 Mahlon T. Birch, B. S., *Instr. Draw.*  
 David N. Harris, B. S., *Instr. Draw.*  
 Geo. H. Folk, *Instr. Draw.*  
 Mark B. Hardin, *Chem. Emeritus.*

Richard N. Brackett, Ph. D., *Dir. Chem. Dept.; State Chem.*  
 David H. Henry, B. S., (*Assoc.*) *Chem.*  
 Guy F. Lipscomb, B. S., (*Asst.*) *Chem.*  
 Herbert J. Smith, B. S., (*Asst.*) *Chem.*  
 Charles S. Doggett, *Dir. Textile Dept.*  
 Claude W. McSwain, B. S., (*Asst.*) *Weaving and Designing.*  
 Fred K. Taylor, B. S., (*Asst.*) *Carding, Spinning, Cotton Grading.*  
 Charles M. Furman, A. B., *Engl.*  
 William S. Morrison, A. B., *Hist., Polit. Econ.*  
 Samuel M. Martin, B. S., *Math.*  
 David W. Daniel, M. A., (*Assoc.*) *Engl.*  
 Augustus G. Shanklin, B. S., (*Assoc.*) *Math.*  
 Thomas W. Keitt, (*Asst.*) *Engl.*  
 Arthur B. Bryan, B. S., (*Asst.*) *Engl.*  
 Joseph E. Hunter, B. S., (*Asst.*) *Math.*  
 Mark E. Bradley, A. B., (*Asst.*) *Engl.*  
 Burr H. Johnstone, A. B., (*Asst.*) *Math.*  
 Andrew Bramlett, B. S., (*Asst.*) *Math.*  
 Allester G. Holmes, B. S., (*Asst.*) *Hist.*  
 Lawrence A. Sease, B. S., *Head Master, Prep. Dept.; (Asst.) Engl.*  
 B. J. Wells, A. B., *Instr. Prep. Dept.*  
 Marcus B. Stokes, Capt., U. S. A., *Comdt. of Cadets.*  
 Katherine B. Trescot, *Libr.*  
 Anne A. Porcher, *Asst. Libr.*

Division of Extension Work and Farmers' Institutes.

T. C. Haddon, B. S., *Actg. Supt.*  
 L. A. Niven, B. S., *Asst. in Hort.*

Christopher B. Haddon, B. S., *Asst. in Rural School Agr.*

<sup>1</sup>Telegraph and express address, *Clemson College*; freight address, *Calhoun*.

## South Carolina Agricultural Experiment Station, Clemson College

Department of Clemson Agricultural College, under the control of the board of trustees.

## STATION STAFF.

J. N. Harper, B. S., M. Agr., <i>Dir.</i> ; <i>Agr.</i>	W. A. Thomas, B. S., ( <i>Marion</i> ), <i>Field Path.</i>
H. W. Barre, M. S., <i>Bot.</i> , <i>Plant Path.</i>	L. D. Boone, B. S., <i>Asst. Chem.</i>
Thos. E. Keitt, B. S., <i>Chem.</i>	W. B. Aull, B. S., <i>Asst. Bot.</i>
C. C. Newnan, B. S., <i>Hort.</i>	L. O. Watson, B. S., <i>Asst. Bot.</i>
A. F. Conradi, M. S., <i>Zool.</i> , <i>Ent.</i> ; <i>State Ent.</i>	J. A. Dew, B. S., <i>Asst. Ent.</i>
M. Ray Powers, D. V. S., <i>Vet.</i>	B. M. Faris, <i>Asst. Ent.</i>
Archibald Smith, B. S., <i>Animal Husb.</i>	E. R. Lloyd, jr., B. S., <i>Field Asst. Animal Husb.</i>
J. N. Hook, <i>Sec.</i>	L. P. Byars, B. S., <i>Asst. in Plant Path.</i>
W. D. Garrison, jr., B. S., <i>Supt. Coast Land Expt. Sta.</i> , <i>Summerville</i> ; <i>Asst. Agr.</i>	F. G. Tarbox, jr., B. S., <i>Asst. Agron.</i>
	Burns Gillison, <i>Foreman of Sta. Farm.</i>

The Colored Normal, Industrial, Agricultural, and Mechanical College of South Carolina,  
Orangeburg.

## GOVERNING BOARD.

Board of trustees: Gov. C. L. Blease (*Chairman*), *Columbia*; W. R. Lowman (*Sec.*), *Orangeburg*; A. L. Dukes, *Orangeburg*; G. B. White, *Chester*; J. W. Floyd, *Kershaw*; C. E. Sawyer, *Aiken*; E. D. Hodge, *Clarendon*.

## COURSES OF STUDY.

The courses of study requiring four years each for completion are the collegiate (B. A.); the agricultural (B. Agr.); the mechanical (B. S.); the normal (L. I., Licentiate of Instruction); and the preparatory, leading up to the above-named courses.

## BOARD OF INSTRUCTION.

Robert S. Wilkinson, Ph. D., *President*; *Agriculturist*; *Director of Industries*; in charge of *Farmers' Institutes*.

H. P. Butler, M. A., <i>Engl.</i>	Cornelia J. Gregg, <i>Instr. Dom. Econ.</i>
E. A. Lawrence, A. B., <i>Asst. Agr.</i>	Marjorie E. Groves, <i>Instr. Phys.</i>
Boliver Levister, M. A., <i>Math.</i>	W. J. Carsten, <i>Supt. Woodworking Dept.</i>
P. P. Watson, <i>Polit. Econ.</i>	James A. Brown, <i>Supt. Brickworking Dept.</i>
C. P. McLurkin, A. M., <i>Phys.</i> , <i>Chem.</i>	S. M. Boston, <i>Supt. Ironworking Dept.</i>
N. C. Nix, A. M., <i>Mech.</i> , <i>Astron.</i>	Chas. E. Watermann, <i>Supt. Tailoring Dept.</i>
Minnie A. Cantey, <i>Instr. Bookkeeping.</i>	W. C. Lewis, <i>Supt. Harness Making Dept.</i>
Ida L. Patrick, <i>Instr. Engl.</i>	Thos. E. Cade, <i>Supt. Plumbing and Tinning Dept.</i>
Cora Muldrow, <i>Instr. Engl.</i>	F. B. Ballard, <i>Supt. Wheelwr. Dept.</i>
Julia M. Williams, <i>Instr. Engl.</i>	W. R. Davis, <i>Supt. Painting Dept.</i>
Elizabeth C. Levy, <i>Instr. Engl.</i>	C. S. Myers, <i>Supt. of Farm; Instr. Agr.</i>
Daisy N. Palmer, <i>Instr. Engl.</i>	James A. Pierce, <i>Instr. Woodworking.</i>
Maud M. Thomas, <i>Instr. Physiol.</i>	C. H. Jones, <i>Comdt.; Instr. Engl.</i>
Clara C. Davis, <i>Instr. Sew.</i>	G. W. Irwin, <i>Supt. of Dairy and Truck Gard.</i>
Mattie J. Battiste, <i>Instr. Dom. Econ.</i>	

## SOUTH DAKOTA.

## South Dakota State College of Agriculture and Mechanic Arts, Brookings.

## GOVERNING BOARD.

State board of regents of education: Albert Anderson \* (*Pres.*), *Sturgis*; A. E. Hitchcock, *Mitchell*; T. W. Dwight \* (*V. Pres.*), *Sioux Falls*; F. W. Ford (*Sec.*), *Elk Point*; Geo. G. Johnson (*Treas.*), *Pierre*; August Frieberg, *Beresford*; Henry Reinhardt, *Eureka*.

## COURSES OF STUDY.

Four-year courses, leading to the degree of B. S., are offered in agriculture, home economics, mechanical engineering, electrical engineering, civil engineering, pharmacy, and general science. A fifth-year course in engineering is offered, leading to the degree of M. E., E. E., or C. E. A regular two-year course in pharmacy, leading to the degree of Ph. G., a three-year course in agriculture, a three-year course in home economics, a two-year normal course in home economics, a three-year preparatory course, a three-year course in commercial science, a one-year secretarial course; courses in art and music, and correspondence courses in agriculture, domestic science, and nature study, are also offered. The short industrial courses include two weeks in agriculture, two weeks' dairy course, three months' creamery course, and five months' course in steam engineering. A summer school for teachers (three weeks) includes agriculture, home economics, etc.

## BOARD OF INSTRUCTION.

Robert L. Slagle, A. M., Ph. D., *President*.

G. L. Brown, Ph. D., *Dean*.  
 James H. Shepard, V. S., *Chem*.  
 Niels E. Hansen, M. S., *Hort., For*.  
 Hubert B. Mathews, M. S., *Phys*.  
 Edward L. Moore, B. S., D. V. S., *Zool., Vet. Med*.  
 S. P. Miller, A. M., *Zool*.  
 Ada B. Caldwell, *Indus. Art*.  
 Robert B. Forsee, Pe. P., *Prin. Prep. Dept*.  
 Albert S. Harding, A. M., *Hist., Polit. Sci*.  
 James W. Wilson, M. S. A., *Animal Husb*.  
 Wm. H. Powers, M. A., (*Assoc.*) *Engl.; Libr*.  
 Lola M. Condit, A. M., *French, German*.  
 Mary Tough, *Home Econ*.  
 Arthur A. Brigham, Ph. D., *Prin. School of Agr.; Agr. College Ext*.  
 Edgar W. Olive, Ph. D., *Bot*.  
 Christian Larsen, M. S. A., *Dairy Husb*.  
 Madison C. Bates, A. M., *Engl*.  
 Albert N. Hume, Ph. D., *Agron*.  
 Joseph N. Rodeheaver, Ph. D., *Philos., Ed*.  
 Philip B. Peyton, Lieut., U. S. A., *Mil. Sci. and Tactics*.  
 Nola K. Fromme, B. S., *Asst. Prin. School of Agr*.

Harry C. Severin, M. A., *Ent., Nature Study; State Ent*.  
 J. Gladden Hutton, M. S., (*Assoc.*) *Agron*.  
 B. A. Dunbar, M. A., (*Asst.*) *Chem*.  
 Maud Goddard, *Instr. Indus. Art*.  
 Gertrude S. Young,<sup>1</sup> A. B., *Instr. Prep. Dept*.  
 Ada Erwin, B. S., *Instr. Home Econ*.  
 Amy Kelley, B. S., *Instr. School of Agr*.  
 Hallie Hyde, B. S., B. A., *Instr. School of Agr.; Asst. in Dom. Sci*.  
 C. M. Woodworth, B. S., *Instr. Agron*.  
 Benj. L. Thompson, B. S., *Instr. Animal Husb*.  
 William White, B. S., *Instr. Dairy Husb*.  
 Johnson T. Sarvis, B. S., *Instr. Bot*.  
 Guy E. Youngburg, Ph. G., M. S., *Asst. in Chem*.  
 Samuel Garver,<sup>2</sup> B. S. A., *Asst. in Agron*.  
 Howard Loomis, B. A., *Asst. in Agron*.  
 H. Howard Biggar, B. S., *Asst. in Agron*.  
 Manley Champlin,<sup>2</sup> B. S., *Asst. in Agron*.  
 M. R. Tolstrup, B. S., *Asst. in Dairy Husb*.  
 Dexter E. Bailey, B. S., *Asst. in Dairy Husb*.  
 F. C. Stoltenberg, *Florist*.

South Dakota Agricultural Experiment Station, *Brookings*.

Department of South Dakota State College of Agriculture and Mechanic Arts, under the control of the State board of regents of education.

## STATION STAFF.

Jas. W. Wilson, M. S. A., *Dir.; Animal Husb*.  
 N. E. Hansen, M. S., *V. Dir.; Hort*.  
 J. H. Shepard, B. S., *Chem*.  
 E. W. Olive, Ph. D., *Bot*.  
 E. L. Moore, B. S., D. V. S., *Vet*.  
 Christian Larsen, M. S. A., *Dairying*.  
 A. N. Hume, Ph. D., *Agron*.  
 R. A. Larson, *Sec., Acct*.  
 F. C. Stoltenberg, *Florist*.  
 G. E. Youngburg, Ph. G., M. S., *Asst. Chem*.

J. G. Hutton, M. S., *Asst. Agron*.  
 Samuel Garver,<sup>2</sup> B. S. A., *Asst. Agron. (Corn)*.  
 Manley Champlin,<sup>2</sup> B. S., *Cooperative Asst. (Cereals)*.  
 William White, B. S., *Asst. Dairy Husb*.  
 D. E. Bailey, B. S., *Dairy Biochem*.  
 W. H. Irvine, B. S. A., *Asst. Dairy Husb*.  
 C. M. Woodworth, B. S., *Asst. Agron*.  
 Howard Loomis, B. A., *Asst. Agron*.  
 H. H. Biggar, B. S., *Asst. Agron*.  
 J. T. Sarvis, B. S., *Asst. Bot*.

## TENNESSEE.

College of Agriculture of the University of Tennessee, *Knoxville*.

## GOVERNING BOARD.

Board of trustees: Brown Ayres \* (*Pres., ex officio, Knoxville*; James Maynard \* (*Treas., Knoxville*; William Rule \* (*Sec., Knoxville*; the Governor; Commissioner of Agriculture and Superintendent of Public Instruction (*ex officio*); H. G. Kyle, *Rogersville*; E. T. Sanford, *Knoxville*; Xenophon Wheeler, *Chattanooga*; Harris Brown, \* *Gallatin*; Thomas R. Myers, *Shelbyville*; T. F. P. Allison, \* *Nashville*; Hu C. Anderson, \* *Jackson*; Spencer F. Thomas, *Brownsville*; Rowan A. Greer, *Memphis*; Hu L. McClung, *Knoxville*; George C. Brown, \* *Spring Hill*.

## COURSES OF STUDY.

There are nine four-year courses of study, viz: Literary, scientific, home economics (B. A. and B. S.), agricultural science (B. S. A.), civil engineering, mechanical engineering, electrical engineering, mining engineering, and chemical (B. S.); two-year courses in agriculture; two weeks' courses in agriculture, animal husbandry, dairying, horticulture, poultry husbandry, bee keeping, and domestic science, respectively, and a six weeks' summer course in agriculture for teachers.

<sup>1</sup> On leave.<sup>2</sup> In cooperation with the U. S. Department of Agriculture.

## BOARD OF INSTRUCTION.

Brown Ayres, Ph. D., LL. D., D. C. L., *President of the University.*

Jas. D. Hoskins, A. M., LL. B., *Hist., Econ.*  
 Chas. E. Wait, C. E., M. E., Ph. D., *Chem.*  
 Henry Gibbons, Capt., U. S. A., *Mil. Sci. and Tac-  
 tics; Comdt.*  
 Harcourt A. Morgan,\* B. S. A., *Zool., Ent.*  
 Charles A. Keffer, M. S., *Hort., For.*  
 Samuel M. Bain, A. B., *Bot.*  
 James T. Porter, Ph. D., *Phys.*  
 C. A. Willson, M. S. A., (*Asst.*) *Animal Husb.*  
 Henry J. Darnall, M. A., *German.*  
 L. P. Shanks, Ph. D., (*Assoc.*) *Romance Lang.*  
 J. T. Brown, M. A., (*Assoc.*) *Engl.*  
 Charles H. Gordon, Ph. D., *Geol., Min.*  
 John B. Hamilton, M. A., (*Assoc.*) *Math.*  
 Catherine A. Mulligan, B. A., *Dean of Women;*  
 (*Asst.*) *Home Econ.*  
 Charles O. Hill, A. B., M. S., Ph. C., (*Asst.*) *Chem.*

James C. Pridmore, M. S., (*Asst.*) *Agron.*  
 Asa A. Schaeffer, Ph. D., (*Asst.*) *Zool.*  
 Ernest S. Reynolds, Ph. D., (*Asst.*) *Bot.*  
 Moses Jacob, V. M. D., *Instr. Vet. Sci., Animal  
 Husb.*  
 John F. Voorhees, M. S. A., *Consulting Met.*  
 Louise G. Turner, M. A., *Instr. Home Econ.*  
 Wm. A. Knabe, *Bandmaster.*  
 Maurice Mulvania, M. S., *Asst in Bact.*  
 Carrie H. Young, *Asst. in Home Econ.*  
 Frank Morell, M. S., *Asst. in Chem. Lab.*  
 Thos. D. Morris, LL. B., *Bursar-Registrar.*  
 Lucy E. Fay, A. M., B. L. S., *Libr.*  
 Annie T. Eaton, A. B., B. L. S., *Asst. Libr.*  
 Nelle Nicholas, *Asst. Registrar.*  
 Lillian B. Scoffin, *Sec. to Pres.*

## Tennessee Agricultural Experiment Station, Knoxville.

Department of the University of Tennessee, under the control of the board of trustees.

## STATION STAFF.

H. A. Morgan,\* B. S. A., *Dir., Zool., Ent.*  
 S. M. Bain, A. B., *Bot.*  
 C. A. Mooers, B. S., *Chem., Agron.*  
 C. A. Keffer, M. S., *Hort.*  
 Moses Jacob, V. M. D., *Vet.*  
 C. A. Willson, M. S. A., *Animal Husb.*  
 S. H. Essary, M. S., *Asst. Bot., Myc.*  
 G. M. Bentley, B. S. A., M. A., *Asst. Zool., Ent.;*  
*State Ent.*  
 Maurice Mulvania, M. S., *Asst. Bact.*  
 E. C. Cotton, B. S., *Asst. Ent.*  
 J. F. Voorhees, M. S. A., *Consulting Met.*

W. K. Hunter, B. A., *Asst. Chem. (Soil Invest.).*  
 J. E. Toomer, B. S., *Asst. Chem. (Fert. and Feeds).*  
 J. I. Hardy, B. S., *Asst. Chem. (Soil Invest.).*  
 W. A. Campbell, *Farm Foreman.*  
 S. M. Spangler, *Asst. in Plai Work.*  
 J. E. Converse, *Asst. in Coop. Expts., Crossville.*  
 W. N. Rudd, *Asst. in Coop. Expts., McMinnville.*  
 Lake R. Neel, B. S. A., *Asst. in Coop. Expts.,  
 Nashville.*  
 S. A. Robert, B. S., *Supt. West Tennessee Expt.  
 Sta., Jackson.*  
 F. H. Broome, *Libr., Sec.*

## TEXAS.

## Agricultural and Mechanical College of Texas, College Station.

## GOVERNING BOARD.

Board of directors: Walton Peteet (*Pres.*), *Fort Worth*; John I. Guion, *Ballinger*; J. Allen Kyle, *Houston*; L. J. Hart, *San Antonio*; Charles Davis, *Steeles Store*; R. L. Bennett, *Paris*; D. W. Kempner, *Galveston*; Edw. R. Kone (*Comr. of Agr., ex officio*), *Austin*.

## COURSES OF STUDY.

The courses of study are as follows: Four-year agricultural, mechanical engineering, textile engineering, electrical engineering, civil engineering, chemical engineering, architectural engineering, and architecture (B. S.), the particular course being specified in the diploma; special and graduate courses; two-year courses in agriculture and textile engineering; a six weeks' summer school, including a summer normal; and a school of cotton classing; a six weeks' winter course for practical farmers, and correspondence courses in agriculture.

## BOARD OF INSTRUCTION.

Robert Teague Milner, *President.*

Charles Puryear, M. A., C. E., *Dean; Math.*  
 Mark Francis, D. V. M., *Vet. Sci.*  
 F. E. Giesecke, M. E., *Draw., Archi. Engin., Archi.*  
 J. C. Nagle, M. A., M. C. E., *Civil Engin.*  
 Edwin J. Kyle, M. S. A., *Hort.*

C. P. Fountain, A. M., *Engl., Mod. Lang.*  
 Oscar M. Ball, Ph. D., *Bot.*  
 J. C. Blake, Ph. D., *Chem., Chem. Engin.*  
 G. S. Fraps, Ph. D., (*Assoc.*) *Agr. Chem.; State Chem.*  
 J. O. Morgan, Ph. D., *Agron.*



- E. J. Fermier, M. E. *Mech. Eng.*  
 John C. Burns, B. S. (*Actg.*) *Animal Husb.*  
 C. L. Fenton, *Mil. Sci.*; *Comdt. of Cadets.*  
 O. F. Chastain, *Hist.*  
 J. B. Bagley, B. S., T. E., *Textile Engin.*  
 Wilmon Newell, M. S., *Ent.*  
 J. W. Kidd, B. S., E. E., (*Assoc.*) *Phys.*  
 Robt. F. Smith, (*Assoc.*) *Math.*  
 R. H. Leavell, A. B., (*Assoc.*) *Econ.*  
 R. P. Marsteller, D. V. M., (*Assoc.*) *Vet. Sci.*  
 J. W. Ridgway, A. B., (*Assoc.*) *Dairying.*  
 R. J. Potts, A. B., B. S., C. E., (*Assoc.*) *Civil Engin.*  
 A. Mitchell, B. C. E., (*Asst.*) *Draw.*  
 J. H. MacDougal, Ph. D., (*Asst.*) *Chem.*  
 Isaac Alexander, *Lect. on Texas Hist.*  
 W. H. Thomas, B. Lit., (*Asst.*) *Engl.*  
 J. W. Mitchell, A. B., (*Asst.*) *Math.*  
 J. N. Michie, B. A., B. S., (*Asst.*) *Math.*  
 J. B. Crockett, C. E., (*Asst.*) *Civil Engin.*  
 H. E. Smith, (*Asst.*) *Mech. Engin.*  
 Floyd B. Paddock, B. S., (*Asst.*) *Ent.*  
 W. T. Wright, B. S., A. B., (*Asst.*) *Phys.*  
 C. M. Evans, M. S. A., *Supt. Ext. Work.*  
 C. S. Tatum, B. S., *Instr. Textile Engin.*  
 J. A. Herrington, B. S., *Instr. Woodwork.*  
 J. D. Garner, M. A., LL. B., *Instr. Math.*  
 D. C. Jones, A. B., *Instr. Math.*  
 J. D. Bond, B. A., *Instr. Math.*  
 L. L. Chappelle, *Instr. Forge Work.*  
 G. A. Geist, B. S., *Instr. Draw.*  
 C. L. Wignall, B. S., *Instr. Draw.*, *Arch. Engin.*  
 W. C. Heck, *Instr. Drawing, Arch. Engin.*  
 E. A. Giles, B. S., *Instr. Draw.*  
 F. Redlich, *Instr. Draw.*  
 Evan F. Ferrin, *Instr. Animal Husb.*  
 G. S. Templeton, B. S., *Instr. Animal Husb.*  
 C. M. Henderson, B. S., *Instr. Animal Husb.*  
 Hugh Cassidy, M. A., *Instr. Biol.*  
 Horace E. Haden, jr., M. A., *Instr. Biol.*  
 G. H. Blackmon, B. S., *Instr. Hort.*  
 H. E. Hayden, A. B., *Instr. Bot.*  
 S. A. McMillan, B. S. A., *Instr. Agr.*  
 W. H. McPheeters, B. S., *Instr. Phys.*  
 E. W. Lehmann, B. S., *Instr. Phys.*  
 F. J. Skeeler, B. S., *Instr. Phys.*  
 W. P. Nelson, *Instr. Chem.*  
 R. J. Windrow, B. S., *Instr. Civil Engin.*  
 C. M. Haines, B. S., *Instr. Mech. Engin.*  
 R. G. Bressler, M. A., *Instr. Public Speaking.*  
 R. W. Canfield, A. M., *Instr. Hist.*  
 D. B. Cofer, A. B., *Instr. Engl.*  
 E. C. Ross, A. M., *Instr. Engl.*  
 W. W. Woods, *Instr. Engl.*  
 P. G. Gunter, A. B., *Instr. Engl.*  
 Bonner Frizzelle, A. B., B. S., *Instr. Engl.*  
 F. C. Brewer, A. B., B. S., *Instr. Engl.*  
 M. K. Thornton, jr., B. S., *Asst. in Chem.*  
 E. E. McAdams, B. S., *Asst. in Phys.*  
 C. E. Friley, *Asst. in Bot.*  
 H. G. Carpenter, B. S., *Asst. in Dairy Husb.*  
 J. H. McLeod, B. S. A., *Asst. in Ext. Work.*  
 H. H. Williamson, B. S. A., *Asst. in Ext. Work.*

#### Texas Agricultural Experiment Station, College Station.

Department of the State Agricultural and Mechanical College of Texas, under the control of the board of directors.

#### STATION STAFF.

- B. Youngblood, M. S., *Dir.*  
 Mark Francis, D. V. M., *Vet.*  
 G. S. Fraps, Ph. D., *Chem.*; *State Chem.*  
 J. C. Burns, B. S., *Animal Husb.*  
 Helge Ness, M. S., *Hort.*  
 A. B. Conner, B. S., *Agron.*  
 Wilmon Newell, M. S., *Ent.*; *State Ent.*  
 H. L. McKnight, *Supt. Sta. Farm.*  
 W. Harper Dean, jr., B. S., *Asst. Ent.*  
 F. B. Paddock, B. S., *Asst. Ent.*  
 H. H. Jobson, B. S., *Asst. in Cotton Invest.*  
 J. B. Rather, M. S., *Asst. Chem.*  
 J. B. Kelly, B. S., *Asst. Chem.*  
 S. E. Asbury, M. S., *Asst. State Chem. (Feed and Fert. Control).*  
 T. L. Ogier, B. S., *Asst. State Chem. (Feed and Fert. Control).*  
 J. T. Auten, *Asst. State Chem. (Feed and Fert. Control).*  
 W. Levin, B. S., *Asst. State Chem.*  
 L. C. Ludlum, *Asst. Chem.*  
 A. T. Potts, B. S., *Supt. Substa., Beeville.*  
 W. S. Hotchkiss, *Supt. Substa., Troupe.*  
 A. L. Paschall, *Supt. Substa., Lubbock.*  
 H. C. Stewart, *Supt. Substa., Pecos.*  
 T. W. Buell, *Supt. Substa., Denton.*  
 H. C. Holmes, *Supt. Substa., Temple.*  
 I. S. York, *Supt. Substa., Spur.*  
 A. L. Harris, *Supt. Substa., Angleton.*  
 J. K. Fitzgerald, *Supt. Substa., Beaumont.*

#### Prairie View State Normal and Industrial College, Prairie View.

#### GOVERNING BOARD.

Board of directors: Walton Peteet, (*Pres.*), *Fort Worth*; J. Allen Kyle, *Houston*; L. J. Hart, *San Antonio*; Charles Davis, *Steeles Store*; John I. Guion, *Ballinger*; R. L. Bennett, *Paris*; D. W. Kempner, *Galveston*; Edw. R. Kone (*Comr. of Agr.*), *Austin*.

#### COURSES OF STUDY.

A normal industrial course extending through four years and optional along agricultural or mechanical lines is offered. Diplomas are granted. Special courses in mechanic arts, agriculture and horticulture, and dairying are provided.

## BOARD OF INSTRUCTION.

E. L. Blackshear, *Principal, Economics and History of Industry.*

W. C. Rollins, *Treas.; Instr. Bookkeeping.*  
 J. H. Crawford, *Nat. and Phys. Sci.; Sec.*  
 J. T. Hodges, *Pedag., Hist.*  
 N. A. Banks, *Math.*  
 C. H. Griggs, *Engl.*  
 J. W. Hoffman, *Agr.*  
 W. P. Terrell, *Mech.*  
 R. L. Isaacs, (*Assoc.*) *Math.*  
 Paul Bledsoe, (*Assoc.*) *Sci.; Libr.*  
 C. H. Waller, (*Assoc.*) *Agr.; Supt. of Truck Farm.*  
 W. B. Woodruff, *Supt. of Farm; Instr. Broom and Mattress Making.*  
 Miss E. E. Houseworth, *Sew., Millinery; Asst. Preceptress.*  
 Miss E. M. Scott, *Cooking, Dom. Econ.*  
 T. T. Thompson, (*Asst.*) *Math.*  
 Miss A. L. Evans, (*Asst.*) *Engl.*  
 A. Day, jr., (*Asst.*) *Sci.*  
 Miss C. B. Drisdale, (*Asst.*) *Hist.*

Miss M. B. Cross, (*Asst.*) *Hist.*  
 N. B. Edwards, (*Asst.*) *Engl.*  
 R. F. Johnson, *Shoemaking.*  
 E. W. Madison, *Tailoring.*  
 A. E. Flewellen, jr., *Blacksm.*  
 J. B. Moore, *Blacksm.*  
 T. H. Brittain, *Carpentry.*  
 Thomas Holley, *Carpentry.*  
 E. W. Scott, *Broom and Mattress Making.*  
 Miss R. Cox, *Sew.*  
 Miss. E. Blackshear, *Music.*  
 Roberta Lyman, *Cooking.*  
 Miss M. J. Simms, *Asst. in Pedag.; Gen. Asst.*  
 A. D. Ewell, *Instr. Hat Making; Foreman of Laundry.*  
 Mrs. R. L. Ewell, *Asst. in Laundry.*  
 Mrs. T. M. R. Hunt, *Preceptress.*  
 Mrs. R. B. Harbert, *Asst. Preceptress.*

## UTAH.

## Agricultural College of Utah, Logan.

## GOVERNING BOARD.

Board of trustees: Lorenzo N. Stohl (*Pres.*), *Brigham*; J. L. Coburn (*Financial Sec.*), *Logan*; A. M. Fleming (*Treas.*), *Logan*; Thomas Smart, *Logan*; J. Q. Adams,\* *Logan*; Elizabeth C. McCune (*V. Pres.*), *Salt Lake City*; J. W. N. Whitecotton, *Provo*; J. T. Caine, jr. (*Recording Sec. and Auditor*), *Logan*; Mathonihah Thomas, *Salt Lake City*; John Dern, *Salt Lake City*; J. C. Sharp, *Salt Lake City*; J. A. Hyde,\* *Nephi*; Angus T. Wright, *Ogden*; J. M. Peterson,\* *Richfield*; C. S. Tingey (*Sec. of State, ex officio*), *Salt Lake City*.

## COURSES OF STUDY.

The following courses of study are offered: Four-year college courses in agronomy, horticulture, animal husbandry and dairying, agricultural engineering, agricultural chemistry, entomology, home economics, commerce, and general science, each leading to the degree of B. S.; a four-year manual-training course in mechanic arts, a four-year manual-training course in home economics, two four-year high school courses in commerce, and a three-year college preparatory course, each leading to a certificate of graduation; short winter courses in agriculture, home economics, mechanic arts, commerce, and forestry; a six weeks' summer school, and a farmers' round-up.

## BOARD OF INSTRUCTION.

John A. Widtsoe, Ph. D., *President.*

Elmer D. Ball, Ph. D., *Dir. School of Agr.*  
 Willard S. Langton,<sup>1</sup> A. M., *Math.*  
 Lewis A. Merrill, B. S., (*Salt Lake City*), *Dir. Ext. Div.*  
 Wm. Peterson, B. S., *Geol.*  
 Joseph W. Jensen, S. B., *Irrig. Engin.*  
 James C. Hogenson, M. S. A. (*Salt Lake City*), *Agron., Ext. Div.*  
 Hyrum J. Frederick, D. V. M., *Vet. Sci.*  
 John T. Caine, III, M. S. A., *Animal Husb. and Work in Ext. Div.*  
 George Thomas, Ph. D., *Econ.; Dir. School of Commerce.*  
 Frank R. Arnold, A. M., *Mod. Lang.*  
 Lochlin W. Caffey, Capt., U. S. A., *Mil. Sci. and Tactics.*  
 Robert Stewart, Ph. D., *Chem.*  
 John T. Caine, jr., B. S., *Registrar, Sec. of Faculty.*  
 Christian Larsen, A. M., *Enol.*  
 Clayton T. Teetzel, LL. B., *Phys. Ed.*  
 Edward G. Titus, Sc. D., *Zool., Ent.*  
 Franklin L. West, Ph. D., *Phys.*

Leon D. Batchelor, Ph. D., *Hort.*  
 Frank S. Harris, Ph. D., *Agron.*  
 Elmer G. Peterson, Ph. D., *Bact., Physiol.*  
 C. N. Jensen, Ph. D., *Bot., Plant Path.*  
 Wilbert S. Drew, M. E., A. M., *Dir. School of Mech. Arts; Farm. Mech.*  
 Ellen A. Huntington, A. M., *Dir. School of Home Econ.; Home Econ.*  
 Mrs. Hazel L. Dunford, (*Salt Lake City*), *Home Econ., Ext. Div.*  
 Blanche Cooper, B. S., (*Assoc.*) *Dom. Sci.*  
 Calvin Fletcher, B. Pd., (*Assoc.*) *Art.*  
 Jos. E. Greaves, Ph. D., (*Assoc.*) *Physiol. Chem.*  
 Rhoda B. Cook, (*Asst.*) *Dom. Arts.*  
 N. Alvin Pedersen, A. B., (*Asst.*) *Engl.*  
 Geo. W. Thatcher, *Music.*  
 Chas. W. Porter, A. M., (*Asst.*) *Chem.*  
 Geo. B. Hendricks, A. M., (*Asst.*) *Econ.*  
 W. Ernest Carroll, M. S., (*Asst.*) *Animal Husb.*  
 Geo. M. Turpin, B. S., (*Asst.*) *Poultry Husb.*  
 Harrison C. Dale, A. M., (*Asst.*) *Hist.*  
 Geo. C. Jensen, A. B., (*Asst.*) *Mod. Lang.*

<sup>1</sup> On leave.

Jonathan S. Powell,<sup>1</sup> (Asst.) *Art.*  
 A. J. Hansen, B. S., (Asst.) *Mech. Arts.*  
 Parley E. Peterson, A. B., (Asst.) *Acts.*  
 Edward P. Pulley, B. S., *Instr. Mech. Engin.*  
 Sara Huntsman, B. S., *Instr. Engl.*  
 Charlotte Kyle, A. M., *Instr. Engl.*  
 W. L. Walker, B. S., *Instr. Math.*  
 M. A. Nelson, B. S., *Instr. Zool., Ent.*  
 Chas. T. Hirst, B. S., *Instr. Chem.*  
 Edward H. Walters, M. S., *Instr. Chem.*  
 Aaron Newey, *Instr. Forging.*  
 Howard P. Madsen, *Instr. Woodwork.*  
 Katherine Clark, A. B., *Instr. Engl.*  
 Jean Crookston, *Instr. Dom. Art.*  
 Amelia Manning, B. S., *Instr. Engl.*

Florence M. Brown, A. B., *Instr. Dom. Sci.*  
 George L. Zundel, B. S., *Instr. Bot.*  
 L. M. Winsor, B. S., *Instr. Irrig., Ext. Div.*  
 D. E. Robinson, B. S., *Instr. Hist.*  
 Wallace Macfarlane, B. S., *Instr. Math.*  
 Wm. L. Quayle, B. S., *Instr. Chem.*  
 Zella Smart, *Instr. Engl.*  
 Wm. Thornley, *Instr. Horseshoeing.*  
 Coral Kerr, B. S., *Instr. Dom. Art.*  
 A. E. Bowman, B. S., *Asst. in Agron.*  
 S. L. Bingham, *Asst. in Dairying.*  
 Fred Froerer, B. S., (Richmond), *Asst. in Dairying*  
 (Coop. Milk Testing Work).  
 Elizabeth C. Smith, B. L., *Libr.*

#### Agricultural Experiment Station, Logan.

Department of the Agricultural College of Utah, under the control of the board of trustees.

#### STATION STAFF.

E. D. Ball, Ph. D., *Dir., Ent.*  
 L. A. Merrill, B. S. (Salt Lake City), *Agron., in charge of Arid Farms.*  
 H. J. Frederick, D. V. M., *Vet.*  
 John T. Caine, III, M. S. A., *Animal Husb.*  
 Robert Stewart, Ph. D., *Chem.*  
 S. H. Goodwin, B. D., *Econ. Ornith.*  
 E. G. Titus, Sc. D., *Ent.*  
 L. D. Batchelor, Ph. D., *Hort.*  
 G. M. Turpin, B. S., *Poultryman.*  
 F. S. Harris, Ph. D., *Agron.*  
 F. L. West, Ph. D., *Met., Soil Phys.*  
 C. N. Jensen, Ph. D., *Plant Path.*  
 J. E. Greaves, Ph. D., *Assoc. Chem.*

W. E. Carroll, M. S., *Assoc. Animal Husb.*  
 C. T. Hirst, B. S., *Asst. Chem.*  
 A. B. Ballantyne, B. S., (St. George), *Asst. Hort.*  
 A. E. Bowman, B. S., *Asst. Agron.*  
 W. L. Quayle, B. S., *Asst. Chem.*  
 M. A. Nelson, B. S., *Asst. Ent.*  
 L. M. Winsor, B. S., *Asst. Irrig. Engin.*  
 Fred Froerer (Richmond), B. S., *Asst. Animal Husb.*  
 Willard Gardner, *Clerk, Libr.*  
 W. W. McLaughlin,<sup>2</sup> B. S., *Irrig. Engin.*  
 C. F. Brown,<sup>2</sup> B. S., *Drainage Engin.*  
 R. A. Hart,<sup>2</sup> B. S., *Drainage Engin.*  
 P. V. Cardon,<sup>2</sup> B. S., *Asst. Agron.*

#### VERMONT.

##### College of Agriculture of the University of Vermont, Burlington.

#### GOVERNING BOARD.

Board of trustees: Gov. John A. Mead (*ex officio*), *Rutland*; Guy P. Benton (*ex officio*), *Burlington*; E. C. Mower (Sec.), *Burlington*; C. P. Smith (Treas.), 211 College St., *Burlington*; Robert Roberts, *Burlington*; W. S. Webb, *Shelburne*; D. P. Kingsley, *New York City*; N. W. Fiske, *Isle La Motte*; Redfield Proctor, *Proctor*; E. J. Ormsbee,<sup>\*</sup> *Brendon*; W. P. Dillingham, *Montpelier*; N. K. Chaffee, *Rutland*; G. S. Fassett,<sup>\*</sup> *Enosburg Falls*; Cassius Peck,<sup>\*</sup> *Burlington*; C. A. Catlin, *Providence, R. I.*; J. G. McCullough, *Bennington*; F. T. Kidder, *Woodstock*; Z. M. Mansur, *Newport*; Elias Lyman, *Burlington*; Henry W. Hill, *Buffalo, N. Y.*; Eugene N. Foss, *Jamaica Plain, Boston, Mass.*; George M. Powers, *Morrisville*.

#### COURSES OF STUDY.

Four four-year courses are offered, all leading to the B. S. degree—viz, agronomy and horticulture, animal husbandry and dairying, forestry, and training for teachers in agriculture in secondary schools. The work in home economics is located in the college of arts and sciences. Several winter courses are offered, including a four weeks' course in dairying and creamery management, a five weeks' course in general agriculture, a two weeks' course in domestic science, and a farmers' week. A five weeks' summer school for teachers and others includes courses in agriculture and home economics.

#### BOARD OF INSTRUCTION.

Guy P. Benton, D. D., LL. D., *President of the University.*

Joseph L. Hills, Sc. D., *Dean College of Agr.; Agron.*  
 Nathan F. Merrill, Ph. D., *Chem.*  
 George P. Burns, Ph. D., *Bot.*  
 Frederick Tupper, jr., Ph. D., Litt. D., *Engl. Lang. and Lit.*  
 Frank A. Rich, V. S., M. D., *Vet. Sci.*  
 Andrew A. Borland, M. S., *Animal and Dairy Husb.*  
 M. B. Cummings, Ph. D., *Hort.*  
 Henry F. Perkins, Ph. D., LL. D., *Zool.*  
 B. F. Lutman, Ph. D., *Plant Path.*  
 Austin F. Hawes, A. B., M. F., *For.; State For.*  
 Bertha M. Terrill, A. M., *Home Econ.*

Josephine A. Marshall, *Instr. Home Econ.*  
 Harold L. Jackson, Capt., U. S. A., *Mil. Sci. and Tactics.*  
 John M. Stetson, A. B., (Asst.) *Math.*  
 John A. MacDonald, *Instr. Hyg.; Phys. Dir.*  
 Chas. A. Kern, B. S., (Asst.) *Chem.*  
 Bernard A. Chandler, B. S., M. F., *Instr. For.*  
 John P. Helyar, B. S., *Instr. Bot., Agron.*  
 Julian I. Lindsay, A. B., *Instr. Engl., French.*  
 Frank H. Clancy, A. B., *Instr. Engl., Elocution.*  
 Wm. Griffin, jr., A. B., *Instr. Engl., German.*  
 George F. Moriarty, A. B., *Instr. French.*  
 Helen B. Shattuck, A. B., *Libr.*

<sup>1</sup> On leave. <sup>2</sup> In charge of cooperative investigations with United States Department of Agriculture.

## Vermont Agricultural Experiment Station, Burlington.

Department of University of Vermont and State Agricultural College, under the control of the board of trustees.

## STATION STAFF.

J. L. Hills, Sc. D., *Dir.*  
 G. P. Burns, Ph. D., *Bot.*  
 M. B. Cummings, Ph. D., *Hort.*  
 F. A. Rich, V. S., M. D., *Vet.*  
 A. F. Hawes, A. B., M. F., *For.; State For.*  
 Cassius Peck, *Farm Supt.*  
 Chas. H. Jones, M. S., *Chem.*  
 A. A. Borland, M. S., *Animal and Dairy Husb.*  
 B. F. Lutman, Ph. D., *Plant Path.*  
 P. M. Lombard, B. S., *Asst. Hort.*

P. A. Benedict B. S., *Asst. Chem.*  
 Jennie L. Rowell, B. S., *Asst. Chem.*  
 W. B. Derby, B. S., *Asst. Chem.*  
 G. C. Cunningham, B. S., *Asst. Plant Path.*  
 Clarence W. Carpenter, B. S., *Asst. Bact.*  
 W. F. Hammond,<sup>1</sup> *Expert in Horse Breeding (Middlebury).*  
 Stanley Hargreaves, *Gard.*  
 C. P. Smith, *Treas.*

## VIRGINIA.

## Virginia Agricultural and Mechanical College and Polytechnic Institute, Blacksburg.

## GOVERNING BOARD.

Board of visitors: J. C. Carrington,\* *Charlotte Court House*; P. F. St. Clair,\* *Banc*; L. E. Johnson, *Roanoke*; R. J. Noell, *East Radford*; L. D. Kline, *R. F. D. 5, Richmond*; J. D. Eggleston (*Supt. of Pub. Instr., ex officio*), *Richmond*; J. M. Barker (*Pres. State Bd. of Agr. and Immigration, ex officio*), *Azton*; C. I. Wade (*Sec.*), *Christiansburg*; A. M. Bowman, *Salem*; B. F. Kirkpatrick,\* *Lynchburg*; Rosewell Page, *Richmond*.

## COURSES OF STUDY.

The courses of study are as follows: Four-year agricultural, applied biology, horticultural, applied chemistry, applied geology, metallurgy and metallography, civil engineering, mechanical engineering, electrical engineering, and mining engineering (B. S.); one-year course in practical agriculture and mechanics (certificate), and a farmers' (one month) winter course.

## BOARD OF INSTRUCTION.

Paul B. Barringer,\* M. D., LL. D., *President of the College.*

John M. McBryde, Ph. D., Sc. D., LL. D., *Pres. Emeritus.*  
 Ellison A. Smyth, jr., A. M., LL. D., *Biol., Zool.*  
 Theo. P. Campbell, A. M., *Mod. Lang.*  
 Robert J. Davidson, A. M., *Agr. Chem.; Dean of Sci. Dept.*  
 Richard H. Hudnall, M. A., Ph. D., *Engl.*  
 Charles E. Vawter, B. S., *Phys.*  
 J. R. Parrott, *Mech. Arts; Dir. of Shops.*  
 Francis D. Wilson, Ph. D., *Inorg. Chem.*  
 John E. Williams, Ph. D., *Math.*  
 Harvey L. Price, M. S., *Hort.; Dean of Agr. Dept.*  
 Robert A. Marr, C. E., *Dean of Engin. Dept.; Agr. Engin.*  
 Jos. F. Ware, Lieut., U. S. A., *Mil. Sci. and Tactics; Comdt. of Cadets.*  
 William E. Barlow, Ph. D., *Dean of Graduate Dept.*  
 William G. Conner, M. E., *Mech. Arts.*  
 William H. Rasche, *Graphics.*  
 Carol M. Newman, Ph. D., *Rhet.*

James B. McBryde, A. B., C. E., *Org. Chem.*  
 S. W. Fletcher, Ph. D., *Expt. Agr.*  
 Lyman Carrier, B. S., *Agron.*  
 Roy J. Holden, M. S., *Geol. and Min.*  
 Howard S. Reed, Ph. D., *Myc., Bact.*  
 Walton K. Brainerd, B. S., *Dairy Husb.*  
 Wm. D. Saunders, *Dir. of Creamery.*  
 Nelson S. Mayo, M. S., D. V. S., *Animal Husb., Vet. Sci.*  
 Alfred W. Drinkard, M. S., *Hist. and Econ.*  
 Ashe Lockhart, B. S., (*Assoc.*) *Animal Husb.*  
 Charles W. Holdaway, *Instr. Dairy Husb.; Supt. of Creamery.*  
 Thomas B. Hutcheson, M. S., *Instr. Agron.*  
 H. S. Stahl, M. S., *Instr. Bot., Chem., Biol.*  
 F. S. Holmes, B. S., *Instr. Hort.*  
 Flippo Gravatt, B. S., B. A., *Asst. in Plant Path.*  
 Charles I. Wade (*Christiansburg*), *Treas.*  
 Wm. F. Henderson, M. D., *Surgeon.*  
 Ethel A. L. Lacy, *Actg. Libr.*

<sup>1</sup> In cooperation with the U. S. Department of Agriculture.



## Virginia Agricultural Experiment Station, Blacksburg.

Department of Virginia Agricultural and Mechanical College and Polytechnic Institute, under the control of the executive committee of the board of visitors.

## STATION STAFF.

S. W. Fletcher, Ph. D., <i>Dir.</i>	A. D. Austin, B. S., <i>Asst. Agron.</i>
H. L. Price, M. S., <i>Hort.</i>	G. C. Starcher, B. S., <i>Asst. Hort.</i>
W. B. Ellett, Ph. D., <i>Chem.</i>	J. S. Cooley, A. B., <i>Asst. Plant Path.</i>
Lyman Carrier, B. S., <i>Agron.</i>	William Kerr, B. Agr., <i>Asst. Animal Husb.</i>
W. K. Brainerd, B. S., <i>Dairyman.</i>	B. G. Anderson, B. S., <i>Supt. District Expt. Sta., Apomattox.</i>
H. S. Reed, Ph. D., <i>Plant Path.</i>	E. R. Hodgson, B. S., <i>Supt. Expt. Farm., Staunton.</i>
N. S. Mayo, M. S., D. V. S., <i>Animal Husb.</i>	W. W. Green, <i>Supt., District Expt. Sta., Bowling Green.</i>
E. A. Back, Ph. D., <i>Ent.</i>	R. P. Cocke, <i>Supt. District Expt. Sta., Chatham.</i>
E. B. Fred, Ph. D., <i>Bact.</i>	C. I. Wade ( <i>Christiansburg</i> ), <i>Treas.</i>
T. B. Hutcheson, M. S., <i>Supt. Plat Expts.</i>	
H. H. Hill, M. S., <i>Asst. Chem.</i>	
A. W. Drinkard, Jr., <sup>1</sup> M. S., <i>Asst. Hort.</i>	

## Virginia Truck Experiment Station, Norfolk.

Cooperating with the Virginia Agricultural Experiment Station and the United States Department of Agriculture.

## GOVERNING BOARD.

P. B. Barringer (*Pres., ex officio*), Blacksburg; W. B. Carney, Churchland; L. E. Johnson (*ex officio*), Roanoke; J. M. Barker (*Pres. State Bd. of Agr. and Immigration, ex officio*), Axton; John T. Griffin, Portsmouth; N. W. Nock, Onancock.

## STATION STAFF.

T. C. Johnson, B. S. A., A. M., <i>Dir.; Hort.</i>	L. L. Corbett, B. L., <i>Asst. in Truck Crops.</i>
P. T. Cole, B. S., <i>Asst. Hort.</i>	Geo. R. Parrish, <i>Treas.</i>
F. A. Johnston, B. S., <i>Asst. Ent.</i>	

## COOPERATING STAFF.

L. C. Corbett, M. S., <i>Hort., U. S. Dept. of Agr.</i>	F. H. Chittenden, D. Sc., <i>Ent., U. S. Dept. of Agr.</i>
W. A. Orton, M. S., <i>Path., U. S. Dept. of Agr.</i>	

## Hampton Normal and Agricultural Institute, Hampton.

## GOVERNING BOARD.

Board of trustees: Robert C. Ogden (*Pres.*), New York City; Alexander McKenzie (*V. Pres.*), Cambridge, Mass.; Francis G. Peabody (*V. Pres.*), Cambridge, Mass.; H. B. Frissell (*Sec.*), Hampton; Geo. F. Peabody, New York City; Chas. E. Bigelow, New York City; Arthur C. James, New York City; William J. Schieffelin, New York City; Lunsford L. Lewis, Richmond; Jas. W. Cooper, New York City; Wm. W. Frazier, Philadelphia, Pa.; Frank W. Darling, Hampton; William Howard Taft, Washington, D. C.; Clarence H. Kelsey, New York City; Samuel C. Mitchell, Columbia, S. C.

State curators: William P. Burrell, Richmond; J. C. Carter, Houston; J. M. Clark, Danville; J. B. Halligan, Smoky Ordinary; J. T. Lewis, Richmond; Henry L. Schmelz, Hampton.

## COURSES OF STUDY.

The academic course of study requires four years for completion, and a diploma is given on graduation. There are also trade and agricultural courses for undergraduates, requiring three years. The postgraduate courses are agriculture, one year; business, domestic arts and science, library, matrons' course, and teachers' training course, two years. A summer school for teachers (including agriculture and domestic science) is also held, and a six weeks' course in agriculture for farmers and farmers' sons.

---

<sup>1</sup> On leave.

## BOARD OF INSTRUCTION.

Hollis Burke Frissell, D. D., LL. D., *Principal*.

Charles K. Graham, *Dir. Agr. Dept.*  
 Harry J. De Yarmett, *Dir. Trade School.*  
 Elizabeth Hyde, *Lady Principal.*  
 R. R. Moton, *Comdt. of Cadets.*  
 George P. Phenix, *V. Prin.*  
 Frank K. Rogers, *Treas.*  
 George T. Scott, *Assoc. Chaplain.*  
 William H. Scoville, *Sec.*  
 Herbert B. Turner, *Chaplain.*  
 Mary J. Arthur, *Teacher of Cooking and House-keeping.*  
 Charles A. Ashe, *Instr. Carpentry.*  
 Edgar H. Bentzel, *Instr. Drafting.*  
 Charles W. Betts, *Instr. Print.*  
 Mary A. Bradley, *Asst. in Sew.*  
 J. L. B. Buck, *Instr. Farm Phys., Surveying.*  
 Elmo S. Christy, *Instr. Farm Accts.*  
 R. R. Clark, *Vet.; Instr. Animal Husb.*  
 Amelia A. Cooke, *in charge of Dom. Sci. Dept.*  
 Jessie Coope, *Teacher of Phys. Training.*  
 Ralph W. Crouse, *Instr. Hort.*  
 George J. Davis, *Mgr. Whipple Farm.*  
 Charles H. De Yarmett, *Instr. Tinsmithing.*  
 Victor W. Dow, *Draftsman.*  
 Constantine Duncan, *Instr. Blacksm.*  
 Ina H. Fenwick, *Teacher of Sew.*  
 Fred J. R. Ford, *Instr. Tailoring.*  
 Rena M. Fuller, *Teacher of Cooking.*  
 Alfred G. Gilbert, *Mgr. Shellbanks Farm.*

Ethel B. Gowans, *Teacher of Bot., Ent.*  
 Jacob L. Graybill, *Instr. Dairying.*  
 William H. Harris, *Instr. Cabinetmaking.*  
 Jennie H. Hart, *Teacher of Sew.*  
 Adelaide L. Hutchins, *Teacher of Singing.*  
 Wm. H. Jett, *Instr. Harness Making.*  
 John H. Jinks, *Supervisor Manual Training.*  
 Wm. H. Judd, *Instr. Tailoring.*  
 Richard W. Kear, *Instr. Plumbing and Steamfitting.*  
 Peter Kinghorn, *Florist.*  
 John F. La Crosse, *Instr. Painting, Upholstery.*  
 Caroline D. Pratt, *in charge Dom. Arts Dept.*  
 F. J. Robinson, *Instr. Machine Shop.*  
 S. Jackson Scott, *Instr. Wheelwr.*  
 Perley F. Skofield, *Teacher of Chem.*  
 Mary Stephens, *Instr. Laundering.*  
 John Sugden, *Supt. Construction Work.*  
 Jessie A. Townsend, *Teacher of Sew.*  
 John Urquhart, *in charge of Horse Barn.*  
 Harry F. Van Horn, *Carpenter.*  
 Wm. E. Warren, *Instr. Shoemaking.*  
 Allen E. Washington, *Asst. Disciplinarian.*  
 Wm. A. Webster, *Instr. Bricklaying and Plastering.*  
 Barton White, *Landscape Gard.*  
 John L. White, *Instr. Ele. Agron.*  
 Sarah White, *in charge of Indus. Sew. Room.*  
 Charles H. Williams, *Phys. Dir.*  
 Russell P. Wolfe, *Instr. Carpentry.*

## WASHINGTON.

The State College of Washington, Pullman.

## GOVERNING BOARD.

Board of regents: Gov. M. E. Hay (*ex officio*), *Olympia*; Peter McGregor (*Pres.*), *Spokane*; E. A. Bryan (*Sec., ex officio*), *Pullman*; J. G. Lewis (*Treas., ex officio*), *Olympia*; R. C. McCroskey, *Garfield*; D. S. Troy, *Chimacum*; Lee A. Johnson (*V. Pres.*), *Sunnyside*; J. J. Browne, *Spokane*.

## COURSES OF STUDY.

Four-year courses of study are offered in the following lines: Mathematics and civil engineering, physics, domestic economy, pharmacy, mining engineering, chemistry, botany, zoology, economic biology, forestry, agriculture, animal husbandry and dairying, horticulture, veterinary science, economic science and history, electrical engineering, hydro-electrical engineering, and mechanical engineering (B. S.); English language and literature, geology, modern languages, Latin, education, and architecture (B. A.); a general course (B. S. or B. A.); three-year courses in veterinary science (D. V. S.), in music (B. Mus.), and in elementary science; two-year courses in pharmacy (Ph. G.), art, and mining; a two-year course for forest rangers; one-year courses in forestry, bookkeeping and stenography, and artisan work; short courses in agriculture, horticulture, dairying, and mining; and a six weeks' summer science school for teachers.

## BOARD OF INSTRUCTION.

Enoch A. Bryan, A. M., LL. D., *President*.

Osmar L. Waller, Ph. M., *V. Pres.; Math., Civil and Irrig. Engin.*  
 Elton Fulmer, M. A., *Dean; Chem.; State Chem.*  
 Sofus B. Nelson, D. V. M. (*Spokane*), *Vet. Sci.; State Vet.*  
 Frank C. Chalfant, A. B., *Mod. Lang.*  
 Bruce McCully, Ph. D., *Engl. Lang. and Lit.*  
 R. Kent Beattie, B. S., M. A., *Bot.*  
 Josephine T. Berry, B. A., M. S., *Head Dept. of Dom. Econ.*  
 Gertrude McKay, B. S., (*Asst.*) *Dom. Sci.*

Solon Shedd, Ph. D., *Geol.*  
 Alex. L. Melander, M. S., *Zool.*  
 Peter J. Hennessey, Lieut., U. S. A., *Mil. Sci. and Tactics; Comdt. of Cadets.*  
 Wm. T. Shaw, B. Agr., M. S., *Zool.; Curator of Museum.*  
 Wyatt E. Ralston, B. S. in Agr., D. V. M., *Physiol., Bact.*  
 Charles Timblin, M. A., *Head Dept. of Ele. Sci.; (Asst.) Math.*  
 Chas. A. Isaacs, M. A., *Math.*

Roscoe W. Thatcher, B. S., M. A., *Head Dept. of Agr.; Agr. Chem.*  
 W. T. McDonald, M. S. A., *Animal Husb.*  
 Paul J. White, M. S. A., Ph. D., *Agron.*  
 H. B. Humphrey, Ph. D., *Plant Path.*  
 O. M. Morris, B. S., *Hort.*  
 A. W. Taylor, A. M., *Econ.*  
 Geo. L. Clothier, M. S., *For.*  
 Earl E. Wegner, D. V. S., (*Asst.*) *Anat. and Surgery.*  
 Samuel Morris, M. A., (*Asst.*) *Chem.*  
 Frank O. Kreager, A. B., (*Asst.*) *Engl.*  
 Otto Menig, D. V. S., (*Asst.*) *Anat. and Surgery.*  
 Clark C. Thom, M. S. A., (*Asst.*) *Agron.*  
 Brenton L. Steele, M. A., (*Asst.*) *Phys.*  
 F. A. Golder, Ph. D., (*Asst.*) *Hist.*  
 A. B. Nystrom, B. S., (*Asst.*) *Dairying.*  
 Justinus J. L. Heldring, D. C. M., (*Asst.*) *Materia Medica, Therapeutics.*  
 Robert C. Ashby, B. S., *Supt. Farmers' Insts.*  
 Wm. G. Brierly, B. S. A., *Instr. Hort.*  
 Lelia W. Hunt, A. B., B. S., *Instr. Dom. Econ.*  
 Bernice E. Waring, *Instr. Dom. Art.*  
 Merrill A. Yothers, B. S., *Instr. Ent.*

S. C. Roberts, B. A., Ph. B., *Instr. Woodwork.*  
 Charles F. McCarthy, *Instr. Engl.*  
 Alice G. Paterson, A. B., *Instr. Chem.*  
 John F. Bohler, *Phys. Dir.*  
 Leroy F. Jackson, B. A., Ph. M., *Instr. Hist.*  
 Julius W. Kalkus, D. V. S., *Instr. Path. and Histology.*  
 Lucius W. Elder, A. M., *Instr. Engl.*  
 Donald English, B. S., *Instr. Econ.*  
 Francesco P. Ventresco, B. S., Ph. M., *Instr. Mod. Lang.*  
 Irving D. Charlton, B. S., *Instr. Farm Mech.*  
 C. Lillian Blanchard, *Instr. Poultry Indus.*  
 E. C. Langlois, B. S. A., *Instr. Hort.*  
 Howard P. Barss, A. B., M. S., *Instr. Bot.*  
 Edward F. Gaines, B. S., *Instr. Agron.*  
 Charles F. Monroe, B. S. A., *Instr. Animal Husb.*  
 Henry F. Holtz, B. S., *Asst. Soil Physicist.*  
 Fred C. Henke, B. A., *Asst. in Math.*  
 W. D. Foster, *Supt. of Coll. Farm.*  
 Asa D. Dickinson, *Libr.*  
 Lora M. Green, B. A., *Asst. Libr.*  
 Maud Putnam, B. A., *Libr. Asst.*

### Washington Agricultural Experiment Station, Pullman.

Department of the State College of Washington, under the control of the board of regents.

#### STATION STAFF.

R. W. Thatcher, B. S., M. A., *Dir.; Chem.*  
 Elton Fulmer, M. A., *State Chem.*  
 S. B. Nelson, D. V. M., (*Spokane*), *Vet.*  
 O. L. Waller, Ph. M., *Irrig. Engin.*  
 A. L. Melander, M. S., *Ent.*  
 C. C. Thom, M. S. A., *Soil Phys.*  
 W. T. McDonald, M. S. A., *Animal Husb.*  
 H. B. Humphrey, Ph. D., *Plant Path.*  
 Alex. Carlyle, *Cereal list.*  
 A. B. Nystrom, B. S., *Dairy Husb.*  
 G. A. Olson, B. S. A., M. S., *Chem.*  
 O. M. Morris, B. S., *Hort.*  
 P. J. White, M. S. A., Ph. D., *Agron.*  
 W. T. Shaw, B. Agr., M. S., *Asst. Zool.*  
 N. Rex Hunt, M. S., *Asst. Bot.*  
 W. L. Hadlock, B. A., *Asst. Chem.*  
 M. A. Yothers, B. S., *Asst. Ent.*

J. W. Kalkus, D. V. S., *Asst. Vet.*  
 H. F. Holtz, B. S., *Asst. Soil Phys.*  
 E. F. Gaines, B. S., *Asst. Cereal list.*  
 H. P. Barss, A. B., M. S., *Asst. Plant Path.*  
 C. F. Monroe, B. S. A., *Asst. Animal Husb.*  
 D. P. Sprague, *Asst. Hort.*  
 George Severance, B. S., *Supt. Substa., Puyallup.*  
 H. L. Blanchard, *Asst. Supt. Substa., Puyallup, in charge of Dairy and Poultry Invest.*  
 L. J. Chapin, B. S., *Asst. Agron., Substa., Puyallup.*  
 J. L. Stahl, B. A., *Hort., Substa., Puyallup.*  
 R. C. Ashby, B. S., *Supt. of Farmers' Insts.*  
 H. W. Sparks, *Supervisor Demonstration Farms.*  
 W. G. Brierly, B. S. A., *Demonstrator Fruit Packing*  
 Martha Richmond, *Libr.*  
 W. D. Foster, *Supt. College Farm.*

### WEST VIRGINIA.

College of Agriculture of West Virginia University, Morgantown.

#### GOVERNING BOARD.

Board of regents: M. P. Shawkey\* (*Pres.*), *Charleston*; George S. Laidley,\* *Charleston*; J. B. Finley,\* *Parkersburg*; G. A. Northcott,\* *Huntington*; E. W. Oglebay,\* *Elm Grove*; E. B. Stephenson (*Treas.*), *Charleston*.

#### COURSES OF STUDY.

The four-year courses with degrees are: All courses leading to general culture, B. A. and B. S.; course in mechanical engineering and electrical engineering, B. S. E. E., B. S. M. E.; course in civil engineering B. S. C. E.; mining engineering, B. S. E. M.; and the scientific course in agriculture, B. S. Agr. The following courses are also offered: Law course (three years), LL. B.; a course in agriculture and domestic science (four years of six months each); a teachers' course in domestic science (two years); preparatory, graduate, music, art, special courses; twelve weeks' courses in agriculture, horticulture, animal industry, poultry industry, and dairying; a special winter agricultural course of two and one-half weeks; and a six weeks' summer school in elementary agriculture and nature study for teachers.

## BOARD OF INSTRUCTION.

Thomas E. Hodges, A. M., D. Sc., *President of the University.*

- |   |  |
|---|--|
| E. Dwight Sanderson, B. S. A., <i>Dean of Agr. College.</i>         | Alfred J. Hare, M. A., <i>Lat., Lit.; Prin. Prep. School; Registrar.</i> |
| Thomas C. Atkeson, Ph. D., <i>Animal Husb.</i>                      | A. W. Nolan, A. B., M. S., ( <i>Assoc.</i> ) <i>Agr. Ed.</i>             |
| Alexander R. Whitehill, Ph. D., <i>Gen. and Anal. Chem.; Treas.</i> | C. R. Titlow, <i>Dir. Agr. Ext. Work.</i>                                |
| John A. Eiesland, Ph. D., <i>Math.</i>                              | Rachel H. Colwell, A. B., <i>Dom. Sci.</i>                               |
| Samuel B. Brown, A. M., <i>Geol., Min.</i>                          | Chas. A. Lueder, D. V. S., <i>Instr. Dairying and Vet. Sci.</i>          |
| Albert M. Reese, Ph. D., <i>Zool.</i>                               | John N. Simpson, A. M., M. D., <i>Anat., Physiol.</i>                    |
| W. H. Alderman, B. S. A., <i>Hort.</i>                              | Frederick L. Kortright, D. Sc., <i>Chem.</i>                             |
| W. S. Weeks, <i>Comdt. of Cadets; Mil. Sci.</i>                     | John L. Sheldon, Ph. D., <i>Bact., Plant Path., Bot.</i>                 |
| Arthur S. Graves, A. B., <i>Instr. German.</i>                      | Fred. W. Truscott, Ph. D., <i>Germanic Lang. and Lit.</i>                |
| Wm. J. Leonard, ( <i>Assoc.</i> ) <i>Fine Arts.</i>                 | Madison Stathers, Ph. D., <i>Romance Lang. and Lit.</i>                  |
| Isaac S. Cook, jr., B. S. A., ( <i>Assoc.</i> ) <i>Agron.</i>       | A. L. Darby, A. M., <i>Instr. Romance Lang.</i>                          |
| E. W. Waggoner, Ph. D., <i>Phys.</i>                                | Chas. Moon, A. B., <i>Instr. Phys.</i>                                   |
| Wm. J. White, <i>Auditor.</i>                                       | W. L. Arnett, Ph. D., <i>Libr.</i>                                       |
| Robert A. Armstrong, A. M., L. H. D., <i>Engl. Lang. and Lit.</i>   | E. S. Murphy, B. S., C. E., <i>Foreman of Buildings and Grounds.</i>     |
| Bert H. Hite, M. S., <i>Agr. Chem.</i>                              |  |

## West Virginia Agricultural Experiment Station, Morgantown.

Department of West Virginia University, under the control of the State board of regents.

## STATION STAFF.

- |  |  |
|--|--|
| E. D. Sanderson, B. S. A., <i>Dir.</i>       | A. L. Dacy, B. S., <i>Asst. Hort.</i>          |
| B. H. Hite, M. S., <i>V. Dir.; Chem.</i>     | T. F. Imbach, <i>Asst. Hort.</i>               |
| W. E. Rumsey, B. S. Agr., <i>Ent.</i>        | J. H. Berghuis Krak, <i>Asst. Chem.</i>        |
| Nahum J. Giddings, M. S., <i>Bact.</i>       | Chas. E. Weakley, jr., <i>Asst. Chem.</i>      |
| I. S. Cook, jr., B. S. A., <i>Agron.</i>     | G. A. Roush, A. M., <i>Asst. Chem.</i>         |
| Horace Atwood, M. S. Agr., <i>Asst. Agr.</i> | K. Hv. Knudsen, Dipl. Ing., <i>Asst. Chem.</i> |
| Frank B. Kunst, A. B., <i>Asst. Chem.</i>    | Martha A. Stewart, <i>Libr.</i>                |
| D. C. Neal, B. S., <i>Asst. Bact.</i>        | E. B. Stephenson, <i>Treas.</i>                |

## The West Virginia Colored Institute, Institute.

## GOVERNING BOARD.

Board of regents: M. P. Shawkey (*Pres., State Supt. of Schools*), *Charleston*; E. W. Oglebay, *Elm Grove*; G. A. Northeott, *Huntington*; J. B. Finley, *Parkersburg*; George S. Laidley, *Charleston*.

## COURSES OF STUDY.

The courses of study are: English, academic, normal, agricultural, and mechanical (requiring four years each for completion), and commercial and domestic science and arts (requiring two years each for completion).

## BOARD OF INSTRUCTION.

Byrd Prillerman, A. M., *President.*

- |   |  |
|---|--|
| Charles E. Mitchell, M. A., <i>Business Mgr.; Head of Coml. Dept.</i> | J. W. Lovette, <i>Brickmasonry.</i>                  |
| S. H. Guss, A. B., <i>Prin. Normal Dept.; Latin, Chem.</i>            | W. H. Lowry, <i>Comdt. of Cadets; Math.</i>          |
| James M. Canty, <i>Supt. of Mech. Indus.</i>                          | Emma Cousins-Dorsey, <i>Matron.</i>                  |
| Austin W. Curtis, M. Agr., <i>Dir. Agr. Dept.; Agr., Bot.</i>         | A. G. Brown, <i>Mech. and Archi. Draw.</i>           |
| Charles E. Jones, <i>Hist., Geog.</i>                                 | Mrs. Margaret M. Lowry, <i>Millinery, Plain Sew.</i> |
| William A. Spriggs, <i>Carpentry.</i>                                 | Mrs. Fannie Cobb-Carter, <i>Normal Training.</i>     |
| Mary Eubank, <i>Dom. Sci. and Arts; Dressmaking.</i>                  | C. Ruth Campbell, <i>Cooking.</i>                    |
| E. M. Burgess, <i>Print.</i>  | Mrs. Elizabeth M. Mitchell, <i>Music.</i>            |
| Solomon Brown, <i>Wheelwor.</i>                                       | Amanda Gamble, <i>Dressmaking.</i>                   |
|   | Lucy Case Smith, A. B., <i>Engl.</i>                 |
|   | Harry Davis, <i>Painting.</i>                        |



## WISCONSIN.

College of Agriculture of the University of Wisconsin, Madison.

## GOVERNING BOARD.

Board of regents: Charles R. Van Hise (*Pres. of University, ex officio*), *Madison*; C. P. Cary (*State Supt. of Public Instr., ex officio*), *Madison*; Gilbert E. Seaman, *Milwaukee*; A. J. Horlick, *Racine*; T. E. Brittingham, *Madison*; J. W. Martin, *Gotham*; Theo. M. Hammond, *Wauwatosa*; James F. Trotman (*Pres.*), *Milwaukee*; Elizabeth F. Waters, *Fond du Lac*; Edward Evans, *La Crosse*; Mrs. Florence G. Buckstaff, *Oshkosh*; E. A. Edmunds, *Appleton*; G. D. Jones, *Wausau*; A. P. Nelson (*V. Pres.*), *Grantsburg*; M. E. McCaffrey (*Sec.*), *Madison*; A. H. Dahl (*Treas., ex officio*), *Madison*.

## COURSES OF STUDY.

The long courses in agriculture and home economics require 4 years, leading to the degree of B. S., the middle course in agriculture covers 2 years, and the short course covers two terms of 14 weeks each. A certificate is granted to those completing these courses. Courses for the training of teachers in scientific agriculture are given, Course I leading to B. S., Course II to B. A. The winter dairy course lasts 12 weeks and requires for admission one season's previous training in a creamery or cheese factory. A summer dairy course is offered to a limited number of students, who will be admitted without previous factory training and may remain the whole season. To secure a dairy certificate the student must have had two seasons' actual practice in a factory, one of which must follow his work at the dairy school. A two weeks' farmers' course, limited to persons who are at least 25 years of age; a housekeepers' conference; a week's special course for cheese-factory and creamery operators and managers; and summer courses in agriculture and home economics are also offered.

BOARD OF INSTRUCTION.<sup>1</sup>Chas. Richard Van Hise, Ph. D., LL. D., *President of the University.*

H. L. Russell, Ph. D., *Dean College of Agr.*  
 Wm. A. Henry, D. Agr., D. Sc., *Agr. Emeritus.*  
 Alexander S. Alexander, M. D. C., V. S., *Vet. Sci., Horse Breeding.*  
 Stephen M. Babcock, Ph. D., LL. D., *Agr. Chem.*  
 Edward H. Farrington, M. S., *Dairy Husb.*  
 Edwin B. Hart, B. S., *Agr. Chem.*  
 Geo. C. Humphrey, B. S., *Animal Husb.*  
 Lewis R. Jones, Ph. D., D. Sc., *Plant Path.*  
 Abby L. Marlatt, M. S., *Home Econ.*  
 Ransom A. Moore, *Agron.*  
 Daniel H. Otis, M. S., *Asst. Dean; Farm Mgt.*  
 Henry C. Taylor, Ph. D., *Agr. Econ.*  
 Andrew R. Whitson, B. S., *Soils and Drainage.*  
 Fritz W. Woll, Ph. D., *Agr. Chem.*  
 Leon J. Cole, Ph. D., (*Assoc.*) *Expt. Breeding.*  
 James G. Halpin, B. S., (*Assoc.*) *Poultry Husb.*  
 Fredk. B. Hadley, D. V. M., *Vet. Sci.*  
 Edwin G. Hastings, M. S., (*Assoc.*) *Agr. Bact.*  
 Kirk L. Hatch, B. S. A., (*Assoc.*) *Agr. Ed., Sec. Agr. Ext. Work.*  
 Elmer V. McCollum, Ph. D., (*Assoc.*) *Agr. Chem.*  
 James G. Moore, M. S., (*Assoc.*) *Hort.*  
 James G. Sanders, Ph. B., M. A., (*Assoc.*) *Econ. Ent.*  
 Gustave H. Benkendorf, B. S., (*Asst.*) *Dairy Husb.*  
 Edmond J. Delwiche, M. S., (*Asst.*) *Agron.*  
 James G. Fuller, B. S., (*Asst.*) *Animal Husb.*  
 Conrad Hoffmann, B. S., (*Asst.*) *Agr. Bact.*  
 Edward R. Jones, M. S., (*Asst.*) *Soils.*  
 Carl E. Lee, M. S., (*Asst.*) *Dairy Husb.*  
 James G. Milward, M. S., (*Asst.*) *Hort.*  
 Christian P. Norgord, B. S., (*Asst.*) *Agron.*  
 Charles A. Ocock, B. S., (*Asst.*) *Agr. Engin.*  
 Peter P. Peterson, Ph. D., (*Asst.*) *Soils.*  
 John L. Sammis, Ph. D., (*Asst.*) *Dairy Husb.*  
 Alden L. Stone, (*Asst.*) *Agron.*  
 William E. Tottingham, M. S., (*Asst.*) *Agr. Chem.*  
 John Y. Beaty, *Editor; Instr. Agr. Journalism.*  
 Burr A. Beach, D. V. M., *Instr. Agr. Bact.*  
 Alfred C. Burrill, B. S., *Instr. Econ. Ent.*

Ormond R. Butler, Ph. D., *Instr. Hort.*  
 Grace Denny, A. B., *Instr. Home Econ.*  
 Jesse R. Hepler, B. S., *Instr. Hort.*  
 Leona Hope, *Instr. Home Econ.*  
 James Johnson, M. S., *Instr. Hort.*  
 Frank Kleinheinz, *Instr. Animal Husb.*  
 Clarence S. Hean, B. A., *Libr.*  
 Benj. D. Leith, B. S., *Instr. Agron.*  
 Alice Loomis, M. A., *Instr. Home Econ.*  
 Timothy J. McCarthy, M. S., *Instr. Hort.*  
 Alvin C. Oosterhuis, M. S., *Animal Husb.*  
 Wm. H. Peterson, B. S., M. A., *Instr. Agr. Chem.*  
 Lewis H. Schwartz, B. S., *Instr. Poultry Husb.*  
 Fred J. Sievers, B. S., *Instr. Soils.*  
 Harry Steenbock, M. S., *Instr. Agr. Chem.*  
 John L. Tormey, B. S. A., *Instr. Animal Husb.*  
 Harlow L. Walster, B. S. A., *Instr. Soils.*  
 Wilbert W. Weir, B. S., *Instr. Soils.*  
 Frank M. White, B. S., *Instr. Agr. Engin.*  
 Wm. H. Wright, M. S., *Instr. Agr. Bact.*  
 Chas. J. Galpin, *Lect. on Country Life Work.*  
 Frieda Bachman, M. A., *Asst. in Plant Path.*  
 Arthur C. Baer, B. S., *Asst. in Dairy Husb.*  
 Agnes Challoner, B. S., *Asst. in Home Econ.*  
 Ewald R. Finner, B. S., *Asst. in Soils.*  
 Lawrence F. Graber, B. S., *Asst. in Agron.*  
 Julia Grady, *Asst. in Home Econ.*  
 Ralph E. Hodges, *Asst. in Editorial Work.*  
 Hugh C. Johnson, B. S., *Asst. in Agr. Engin.*  
 Frank J. Kelley, *Asst. in Expt. Breeding.*  
 Christmas Kelly, B. S., *Asst. in Home Econ.*  
 Orren Lloyd-Jones, M. S., *Asst. in Agr. Chem.*  
 Orson G. Lloyd, B. S., *Asst. in Agr. Econ.*  
 Irving E. Melhus, B. S., *Asst. in Plant Path.*  
 Frank B. Morrison, B. S., *Asst. to Dean; Asst. in Agr. Chem.*  
 Emil Ruog, B. S., *Asst. in Soils.*  
 Annabel Turner, B. S., *Asst. in Home Econ.*  
 Herman W. Ullsperger, B. S., *Asst. in Soils.*  
 James A. Valentine, A. B., *Asst. in Agr. Econ.*

<sup>1</sup>Includes only instructors in subjects directly relating to agriculture. Many other members of the university faculty give instruction to agricultural and home economics students pursuing the course leading to the degree of B. S.

**Agricultural Experiment Station of the University of Wisconsin, Madison.**

Department of the University of Wisconsin, under the control of the board of regents.

## STATION STAFF.

- H. L. Russell, Ph. D., *Dir.*  
 Wm. A. Henry, D. Agr., D. Sc., *Agr. Emeritus.*  
 S. M. Babcock, Ph. D., LL. D., *Asst. Dir.; Chief Chem.*  
 L. J. Cole, Ph. D., *Expt. Breeding.*  
 E. H. Farrington, M. S., *Dairy Husb.*  
 F. B. Hadley, D. V. M., *Vet. Sci.*  
 J. G. Halpin, B. S., *Poultry Husb.*  
 E. B. Hart, B. S., *Agr. Chem.*  
 E. G. Hastings, M. S., *Agr. Bact.*  
 K. L. Hatch, B. S. A., *Agr. Ed.; Sec. Agr. Ext. Work.*  
 G. C. Humphrey, B. S., *Animal Husb.*  
 L. R. Jones, Ph. D., D. Sc., *Plant Path.*  
 Abby L. Marlatt, M. S., *Home Econ.*  
 E. V. McCollum, Ph. D., *Assoc. Agr. Chem.*  
 J. G. Moore, M. S., *Hort.*  
 R. A. Moore, *Agron.*  
 C. A. Ocock, B. S., *Agr. Engin.*  
 D. H. Otis, M. S., *Farm Mgt.*  
 J. G. Sanders, Ph. B., M. A., *Econ. Ent.; Nursery Insp.*  
 H. C. Taylor, Ph. D., *Agr. Econ.*  
 A. R. Whitson, B. S., *Soils and Drainage.*  
 F. W. Woll, Ph. D., *Feed and Fert. Control; Dairy Tests.*  
 G. H. Benkenndorf, B. S., *Asst. Dairy Husb.*  
 E. J. Delwiche, M. S., *Asst. Agron.*  
 J. G. Fuller, B. S., *Asst. Animal Husb.*  
 Conrad Hoffmann, B. S., *Asst. Agr. Bact.*  
 E. R. Jones, M. S., *Asst. in Soils and Drainage.*  
 C. E. Lee, M. S., *Asst. Dairy Husb.*  
 J. G. Milward, M. S., *Asst. Hort.*  
 C. P. Norgord, B. S., *Asst. Agron.*  
 P. P. Peterson, Ph. D., *Asst. in Soils.*  
 J. L. Sammis, Ph. D., *Asst. Dairy Husb.*  
 A. L. Stone, *Asst. Agron.*  
 W. E. Tottingham, M. S., *Asst. Agr. Chem.*  
 A. C. Baer, B. S., *Asst. Dairy Husb.*  
 B. A. Beach, D. V. M., *Asst. Agr. Bact.*  
 J. Y. Beaty, *Editor.*  
 Emily E. Bresee, B. A., B. S., *Asst. in Fert. and Feed Insp.*  
 O. R. Butler, Ph. D., *Asst. Hort.*  
 A. C. Burrill, B. S., *Asst. Econ. Ent.; Asst. Nursery Insp.*  
 E. R. Finner, B. S., *Asst. in Soils.*  
 C. J. Galpin, *Country Life Work.*  
 L. F. Graber, B. S., *Asst. Agron.*  
 R. T. Harris, *Asst. in Dairy Tests.*  
 C. S. Hean, B. A., *Libr.*  
 J. R. Hepler, B. S., *Asst. Hort.*  
 R. E. Hodges, *Asst. in Editorial Work.*  
 H. C. Johnson, B. S., *Asst. in Agr. Engin.*  
 James Johnson, M. S., *Asst. Hort.*  
 J. C. Jurrjens, B. S., *Asst. Fert. and Feed Insp.*  
 F. J. Kelley, *Asst. in Expt. Breeding.*  
 Frank Kleinheinz, *Asst. Animal Husb.*  
 B. D. Leith, B. S., *Asst. Agron.*  
 O. Lloyd-Jones, M. S., *Asst. Agr. Chem.*  
 O. G. Lloyd, B. S., *Asst. in Agr. Econ.*  
 T. J. McCarthy, M. S., *Asst. Hort.*  
 O. G. Malde, *Supt. Cranberry Sta., Grand Rapids.*  
 I. E. Melhus, B. S., *Asst. Plant Path.*  
 F. B. Morrison, B. S., *Asst. Chem.*  
 A. C. Oosterhuis, M. S., *Asst. Animal Husb.*  
 W. H. Peterson, B. S., M. A., *Asst. Agr. Chem.*  
 L. H. Schwartz, B. S., *Asst. Poultry Husb.*  
 F. J. Sievers, B. S., *Asst. in Soils.*  
 Harry Steenbock, M. S., *Asst. Agr. Chem.*  
 J. L. Tormey, B. S. A., *Asst. Animal Husb.*  
 Emil Truog, B. S., *Asst. in Soils.*  
 H. W. Ullsperger, B. S., *Asst. in Soils.*  
 J. A. Valentine, A. B., *Asst. in Agr. Econ.*  
 H. L. Walster, B. S. A., *Asst. in Soils.*  
 F. M. Whitê, B. S., *Asst. Agr. Engin.*  
 W. H. Wright, M. S., *Asst. Agr. Bact.*

## WYOMING.

College of Agriculture and Mechanic Arts of the University of Wyoming, Laramie.

## GOVERNING BOARD.

Board of trustees: Otto Gramm\* (*Pres.*), *Laramie*; T. F. Burke (*V. Pres.*), *Cheyenne*; F. S. Burrage (*Sec.*), *Laramie*; J. F. Crawford, *Saratoga*; A. C. Jones\* (*Treas.*), *Laramie*; Gibson Clark\*, *Cheyenne*; V. J. Tidball\*, *Laramie*; A. J. Mokier, *Casper*; Rose A. Bird (*State Supt. of Public Instr. ex officio*), *Cheyenne*; W. S. Ingham, *Laramie*; Alexander B. Hamilton, *Laramie*; Lyman H. Brooks, *Sheridan*; Augustine Kendall, *Rock Springs*; Charles O. Merica\* (*Pres. Univ., ex officio*), *Laramie*.

## COURSES OF STUDY.

The following courses are offered, viz: Four-year agricultural, mechanical and electrical engineering, civil engineering, mining engineering, irrigation engineering, home economics (B. S.) and commerce (B. S. in Com.); a four-year preparatory course; special courses in agricultural, irrigation, live-stock management and judging; correspondence courses, and a six weeks' summer school for teachers.

## BOARD OF INSTRUCTION.

Charles O. Merica, A. M., LL. D., *President of the University; English.*Aven Nelson, Ph. D., *Biol.*Henry Merz, A. M., *German.*Charles B. Ridgaway, A. M., *Math.*Arthus E. Bellis, M. S., *Phys.*Agnes M. Wergeland, Ph. D., *Hist., French.*Helen Middlekauff, *Engl.*Henry G. Knight, A. M., *Chem.; State Chem.*Fred W. Heyl, Ph. D., (*Assoc.*) *Chem.*B. H. Grave, Ph. D., (*Asst.*) *Zool.; Geol.*Grace R. Hebard, Ph. D., *Polit. Econ.; Libr.*E. G. Hoefer, B. S., *Mech. Engin.*Harol D. Coburn, Lieut., U. S. A., *Mil. Sci. and Tactics; Dir. Phys. Training.*Emeline S. Whitcomb, B. S., *Household Econ.*Emma H. Knight, B. A., *Household Econ.*W. H. Reed, *Geol.*J. R. Hutchison, LL. B., B. S., *Prin. School of Commerce.*John C. Fitterer, M. S., C. E., *Civil and Irrig. Engin.*Otto L. Prien, M. D. V., B. S., *Vet. Sci.*Alpheus D. Faville, B. S., *Animal Husb.*John A. Hill, B. S., (*Assoc.*) *Animal Husb.*T. S. Parsons, M. S., *Agron.*Robert J. Cowper, *Asst. in Shopwork.*Chas. J. Oviatt, B. S., *Instr. Animal Husb., Asst. Wool Expert.*

## Wyoming Agricultural Experiment Station, Laramie.

Department of the University of Wyoming, under the control of the board of trustees.

## STATION STAFF.

Henry G. Knight, A. M., *Dir.; Chem.; in charge of Farmers' Insts.*Aven Nelson, Ph. D., *Bot.*F. E. Hepner, Ph. G., M. S., *Asst. Chem.*J. A. Hill, B. S., *Wool Expert.*O. L. Prien, M. D. V., B. S., *Animal Path.*A. D. Faville, B. S., *Animal Husb.*J. C. Fitterer, M. S., C. E., *Irrig. Engin.*Leroy D. Swingle, Ph. D., *Research Parasitologist.*S. K. Loy, Ph. D., *Research Chem.*Karl T. Steik, A. M., *Asst. Chem.*T. S. Parsons, M. S., *Agron.*C. J. Oviatt, B. S. *Asst. Wool Expert.*F. S. Burrage, B. A., *Sec.*





# INDEX OF NAMES.

- Abbott, J. B., 25.  
 Abbott, W. L., 22.  
 Adams, A. C., 35.  
 Adams, C. F., 12, 13.  
 Adams, F., 7.  
 Adams, G. E., 62, 63.  
 Adams, J. F., 61.  
 Adams, J. L., 31.  
 Adams, J. Q. (La.), 32.  
 Adams, J. Q. (Utah), 68.  
 Adams, J. W., 15.  
 Adams, M., 46.  
 Ade, G., 24.  
 Agee, A., 60, 61.  
 Agee, H. P., 21.  
 Ageton, C. N., 7, 62.  
 Ahearn, M. F., 28.  
 Ahrends, A. E., 48.  
 Aicher, E. H., 41.  
 Aicher, L. C., 22.  
 Ailman, J. T., 60.  
 Akerman, A., 19.  
 Alcock, J. R., 37.  
 Alderman, L. R., 58.  
 Alderman, W. H., 74.  
 Aldrich, J. M., 22.  
 Alexander, A. S., 75.  
 Alexander, C. O., 27.  
 Alexander, H. C., 34.  
 Alexander, L., 67.  
 Alexander-Bahrenberg, Mrs. C. T., 22.  
 Aley, R. J., 34.  
 Alford, T. G., 24.  
 Allen, A. A., 28.  
 Allen, B. F., 44.  
 Allen, C. S., 45.  
 Allen, E. A., 42.  
 Allen, E. W., 6, 8.  
 Allen, F. W., jr., 26.  
 Allen, H. E., 24.  
 Allen, H. J., 37.  
 Allen, R. F., 38.  
 Allen, R. M., 30, 31.  
 Allen, R. W., 59.  
 Allen, W. M., 53.  
 Allis, C. D., 10.  
 Allison, E., 25.  
 Allison, H. O., 42, 43.  
 Allison, I. M. K., 15.  
 Allison, J. H., jr., 27.  
 Allison, T. F. P., 65.  
 Alsop, J. W., 16.  
 Alway, F. J., 45, 46.  
 Ames, C. T., 42.  
 Ames, J. W., 56.  
 Ammons, E. M., 14.  
 Anderson, A., 64.  
 Anderson, A. C., 37, 38.  
 Anderson, B. G., 71.  
 Anderson, C. B., 45.  
 Anderson, C. E., 17.  
 Anderson, C. L., 10.  
 Anderson, D. W., 37.  
 Anderson, E. E., 49.  
 Anderson, H. C., 65.  
 Anderson, H. W., 24.  
 Anderson, J. E., 44.  
 Anderson, J. N., 18.  
 Anderson, J. T., 10.  
 Anderson, L., 13, 14.  
 Anderson, R. E., 57.  
 Anderson, R. J., 50.  
 Anderson, W., 34.  
 Anderson, W. B., 26.  
 Anderson, W. C., 40.  
 Andrews, A. L., 21.  
 Angel, W. P., 53.  
 Ansporn, B. W., 41.  
 Anthony, R. D., 51.  
 Anthony, S., 40.  
 App, F., 47.  
 Apperson, J. T., 58.  
 Appleman, C. O., 35.  
 Appleton, J. L., jr., 61.  
 Arbuthnot, J. G., 59.  
 Arias, J. B., 62.  
 Arkell, T. R., 47.  
 Armsby, H. P., 8, 60, 62.  
 Armstrong, A. E., 46.  
 Armstrong, F. F., 11.  
 Armstrong, F. L., 33.  
 Armstrong, L. E., 61.  
 Armstrong, R. A., 74.  
 Armwood, W. A., 19.  
 Arnett, C. N., 26.  
 Arnett, W. L., 74.  
 Arnold, C. L., 56.  
 Arnold, F. R., 68.  
 Arnold, R. G., 9.  
 Arnot, G., 49.  
 Arny, A. C., 39, 40.  
 Arthur, J. C., 24, 25.  
 Arthur, M. J., 72.  
 Artley, H. B., 7.  
 Arville, Mrs. M. A., 26.  
 Arvold, A. G., 54.  
 Arzberger, E. G., 56.  
 Asbury, S. E., 67.  
 Ashby, R. C., 73.  
 Ashe, C. A., 72.  
 Ashley, E. L., 36.  
 Ashmore, O., 20.  
 Ashton, L. H., 51.  
 Atkeson, T. C., 74.  
 Atkins, J. A., 19.  
 Atkinson, A., 44, 45.  
 Atkinson, T. W., 32.  
 Attaway, D. E., 19.  
 Atwood, H., 74.  
 Aull, W. B., 64.  
 Aumer, J. P., 23.  
 Aust, C., 40.  
 Austin, A. D., 71.  
 Austin, G. A., 11.  
 Austin, Mrs. M., 12.  
 Auten, J. T., 67.  
 Averill, A. W., 34.  
 Averitt, S. D., 30, 31.  
 Avery, S., 8, 45.  
 Ayres, B., 8, 65, 66.  
 Ayres, H. L., 51, 52.  
 Babb, J. G., 42, 43.  
 Babcock, E. B., 13, 14.  
 Babcock, O. G., 35.  
 Babcock, S. M., 75, 76.  
 Babcock, W., 37.  
 Babson, H., 24.  
 Bach, L., 59.  
 Bachelder, N. J., 47.  
 Bachman, F., 75.  
 Bachtell, M. A., 56.  
 Back, E. A., 71.  
 Backus, L. S., 43.  
 Badenoch, A. H., 49.  
 Baer, A. A., 45.  
 Baer, A. C., 75, 76.  
 Baggs, W. T., 48.  
 Bagley, J. B., 67.  
 Bahnsen, P. B., 9.  
 Bahrenberg, Mrs. C. T. A., 22.  
 Bailey, C. H., 40.  
 Bailey, D. E., 65.  
 Bailey, E. M., 16.  
 Bailey, E. W., 23, 24.  
 Bailey, F. D., 59.  
 Bailey, L. H., 51, 52.  
 Bailey, I. M., 43.  
 Bain, S. M., 66.  
 Baird, R. O., 57, 58.  
 Baker, C. A., 15.  
 Baker, E. C., 38.  
 Baker, E. L., 50.  
 Baker, E. T., 22.  
 Baker, G. J., 39.  
 Baker, G. T., 25.  
 Baker, H. J., 36, 37.

- Baker, H. P., 23.  
 Baker, J. F., 37, 38.  
 Baker, J. H., 44.  
 Baker, L. W., 17.  
 Baker, M. B., 39.  
 Baker, W. C., 51.  
 Bakke, A. L., 26.  
 Baldwin, C. W., 35.  
 Baldwin, L. A., 44.  
 Baldwin, L. B., 59.  
 Baldwin, S. E., 16.  
 Balis, W. H., 32.  
 Ball, E. D., 68, 69.  
 Ball, L. H., 17.  
 Ball, O. M., 66.  
 Ballantyne, A. B., 69.  
 Ballard, F. B., 64.  
 Ballard, W. R., 35.  
 Ballenger, T. T., 52.  
 Ballentine, M. F., 11.  
 Ballinger, F., 44.  
 Ballou, F. H., 56.  
 Ballou, H. M., 21.  
 Banks, N. A., 68.  
 Barber, B. M., 45.  
 Barber, L. B., 29.  
 Barber, W. H., 61.  
 Barbour, E. H., 46.  
 Barbour, E. L., 48.  
 Bardenwerper, K., 46.  
 Barding, E. P., 59.  
 Bareis, G. M., 56.  
 Bark, D. H., 7.  
 Barker, G. R., 21.  
 Barker, H. S., 30.  
 Barker, J. F., 50.  
 Barker, J. M., 70, 71.  
 Barker, P. B., 46.  
 Barlow, J., 62.  
 Barlow, T. W., 60.  
 Barlow, W. E., 70.  
 Barnes, C. L., 15.  
 Barnes, G. A., 28.  
 Barnes, K. W., 53.  
 Barnes, R. A., 44.  
 Barnes, R. B., 9.  
 Barnhart, J. M., 24.  
 Barr, J. H., 50.  
 Barre, H. W., 64.  
 Barrell, E. P., 33.  
 Barrell, Mrs. E. P., 33.  
 Barrett, J. T., 23, 24.  
 Barringer, P. B., 70, 71.  
 Barrow, D. C., 19, 20.  
 Barrows, H. H., 7.  
 Barrows, W. B., 37.  
 Barrows, W. M., 56.  
 Barrus, M. F., 51, 52.  
 Barss, H. P., 73.  
 Bartholomew, C. E., 26.  
 Bartlett, J. M., 34.  
 Barto, D. O., 23.  
 Bass, R. P., 47.  
 Bassett, L. B., 39, 40.  
 Batchelor, L. D., 68, 69.  
 Bate, F. E., 48.  
 Bates, E. S., 12.  
 Bates, M. C., 65.  
 Batt, M., 54.  
 Battiste, M. J., 64.  
 Bauer, F. C., 23.  
 Baum, A. M., 28.  
 Baus, R., 33.  
 Baxter, O. G., 7.  
 Baxter, R. B., 40.  
 Bayard, E. S., 60.  
 Bayha, A., 29.  
 Bayless, C. H., 11.  
 Baysinger, S. L., 42.  
 Beach, B. A., 75, 76.  
 Beach, C. L., 16.  
 Beach, S. A., 26, 27.  
 Beahan, W., 50.  
 Beal, A. C., 51, 52.  
 Beal, J. M., 53.  
 Beal, L. H., 28.  
 Beal, W. H., 6, 8.  
 Beal, W. J., 37.  
 Beale, A., 32.  
 Beale, T., 13.  
 Bear, F. E., 56.  
 Beard, H. L., 59.  
 Beardshear, C. S., 26.  
 Beattie, R. K., 72.  
 Beatty, C., 35.  
 Beaty, E. B., 59.  
 Beaty, J. Y., 75, 76.  
 Beaty, L. L., 59.  
 Beaumont, J. W., 37.  
 Beaver, J. A., 60.  
 Beck, M., 44.  
 Beckenstrater, H., 35.  
 Becker, A., 28.  
 Becker, G. G., 12, 13.  
 Beckett, S. H., 7.  
 Beckman, F. W., 26, 27.  
 Beckmann, H. H., 27.  
 Beckwith, T. D., 59.  
 Bedford, R. C., 10.  
 Beegle, M. F. M., 57.  
 Beighle, E. E., 38.  
 Bell, A. J., 33.  
 Bell, A. T., 32.  
 Bell, A. W., 9.  
 Bell, C. E., 53.  
 Bell, J. C., 14.  
 Bell, M. W., 53.  
 Bell, W. B., 54.  
 Belling, J., 18.  
 Bellis, A. E., 77.  
 Bemis, B., 39, 40.  
 Bemis, H. E., 26.  
 Benard, L. L., 18.  
 Benedict, P. A., 70.  
 Benham, R., 38.  
 Benitez, R. A., 62.  
 Benjamin, E. W., 51.  
 Benkendorf, G. H., 75, 76.  
 Bennett, A. A., 26.  
 Bennett, B. F., 35.  
 Bennett, E. R., 15.  
 Bennett, J. W., 19.  
 Bennett, R. L., 66, 67.  
 Bentgson, N. A., 45.  
 Bentley, G. M., 66.  
 Bentley, J., Jr., 51.  
 Benton, G. P., 69.  
 Bentzel, E. H., 72.  
 Bentzen, F. W., 38.  
 Berchtold, F., 58.  
 Berg, H., 38.  
 Bergen, T. G., 47.  
 Berger, O. F., 18.  
 Bergman, H. D., 26.  
 Bergman, H. F., 54, 55.  
 Berry, J. B., 61.  
 Berry, J. T., 72.  
 Berry, L. E., 16.  
 Berry, W. M., 17.  
 Besley, F. W., 35.  
 Bessey, C. E., 45.  
 Bessey, E. A., 37, 38.  
 Betts, C. W., 72.  
 Bevan, W. A., 26.  
 Bevier, I., 23.  
 Bexell, J. A., 58.  
 Bias, J. H., 11.  
 Biddison, C., 28.  
 Bigelow, C. E., 71.  
 Biggar, H. H., 65.  
 Biggs, J., 17.  
 Billetdoux, E. W., 48.  
 Billings, T., 25.  
 Bilsborrow, J. D., 40.  
 Bingham, D., 47.  
 Bingham, G. H., 47.  
 Bingham, S. L., 69.  
 Bioletti, F. T., 13, 14.  
 Birch, M. T., 63.  
 Bird, R. A., 76.  
 Birdsong, M. S., 53.  
 Bishop, E. C., 27.  
 Bishop, E. F., 21.  
 Bishop, J. L., 19.  
 Bissell, G. W., 37.  
 Bittenbender, H. A., 57.  
 Bittner, W. S., 38.  
 Bixby, F. L., 7, 49.  
 Bizzell, J. A., 51, 52.  
 Black, C. A., 47.  
 Black, H. V., 19.  
 Black, J. M., 42.  
 Black, W. J., 8.  
 Blackburn, W. E., 27.  
 Blackmon, G. H., 67.  
 Blackshear, E., 68.  
 Blackshear, E. L., 68.  
 Blain, H. M., 32.  
 Blair, A. W., 48.  
 Blair, F. G., 22.  
 Blair, J. C., 23, 24.  
 Blair, J. F., 44.  
 Blair, M. J., 39, 40.  
 Blaisdell, T. C., 37.  
 Blake, G. A., 17.  
 Blake, J. C., 66.  
 Blake, M. A., 48, 49.  
 Blakeslee, A. F., 16.  
 Blanchard, C. L., 73.  
 Blanchard, H. L., 73.  
 Blattner, D. G., 29.

- Blease, C. L., 64.  
 Bledsoe, P., 68.  
 Bledsoe, W., 53.  
 Bleile, A. M., 55.  
 Blinn, P. K., 15.  
 Bliss, G. R., 27.  
 Bliss, R. K., 27.  
 Blohm, A. F., 56.  
 Blood, C. H., 50.  
 Blood, F. B., 56.  
 Bluford, J. H., 54.  
 Blumenfeld, S. F., 41.  
 Boardman, H. P., 46.  
 Bock, J. C., 38.  
 Bohler, J. F., 73.  
 Boldt, G. C., 50.  
 Bolley, H. L., 54, 55.  
 Boltz, G. E., 57.  
 Bomberger, F. B., 35.  
 Bond, J. D., 67.  
 Bonebright, H. B., 44, 45.  
 Bonnet, L., 14.  
 Bonns, W. W., 34.  
 Bontrager, W. E., 57.  
 Boone, L. D., 64.  
 Boot, E. M., 28.  
 Booth, N. O., 57, 58.  
 Borders, J. M., 12.  
 Boring, A. M., 34.  
 Borland, A. A., 69, 70.  
 Boss, A., 39, 40.  
 Boston, S. M., 64.  
 Bostwick, C. D., 50.  
 Bosworth, A. W., 50.  
 Bottomley, A. W. T., 21.  
 Boucke, O. F., 61.  
 Bouquet, A. G. B., 59.  
 Bourme, A. I., 37.  
 Boutelle, F. C., 39.  
 Bouton, R., 45.  
 Boutwell, H. L., 47.  
 Bouyoucos, G., 38.  
 Bowditch, J., jr., 38.  
 Bowditch, N. I., 36.  
 Bowen, A. F., 53.  
 Bowen, B. L., 55.  
 Bowen, J. V., 41.  
 Bower, E. B., 61.  
 Bower, H. J., 56.  
 Bowers, J. H., 57.  
 Bowker, W. H., 36.  
 Bowles, P. E., 13.  
 Bowles, P. S., 42.  
 Bowman, A. E., 69.  
 Bowman, A. M., 70.  
 Bowman, J. C., 26.  
 Bownocker, J. A., 55.  
 Boyd, T. D., 31, 32.  
 Boyd, W. E., 6.  
 Boyd, W. L., 39, 40.  
 Boyle, J. G., 24, 25.  
 Brace, M. C., 27.  
 Bracker, E. M. D., 24.  
 Brackett, R. N., 63.  
 Bradford, F. C., 59.  
 Bradford, J. N., 55.  
 Bradfute, O. E., 55.  
 Bradley, J. C., 51.  
 Bradley, M. A., 72.  
 Bradley, M. E., 63.  
 Bradley, W. W., 63.  
 Bragg, L. C., 15.  
 Bragg, T., 9, 10.  
 Bragg, V. W., 41.  
 Brainerd, W. K., 70, 71.  
 Braman, W. W., 62.  
 Bramlett, A., 63.  
 Brand, R. E., 23, 24.  
 Brandenburg, W. A., 58.  
 Brandson, E. B., 42.  
 Brandt, L., 23.  
 Brandt, P. M., 43.  
 Bray, C. I., 57, 58.  
 Bray, G. E., 28.  
 Breaux, Z. N., 58.  
 Breazeale, W. E., 48.  
 Breese, L. B., 22.  
 Breeze, F. J., 24.  
 Bregger, T., 24.  
 Brehm, C. E., 24.  
 Breithaupt, L. R., 59.  
 Brenton, C. R., 25.  
 Bresee, E., 76.  
 Bressler, R. G., 67.  
 Brett, P. M., 48.  
 Brewer, C. L., 42.  
 Brewer, F. C., 67.  
 Brewer, H. R., 44.  
 Brewer, O. A., 57.  
 Brewer, W. F., 44.  
 Brewster, E., 12.  
 Bricker, G. A., 56.  
 Bridgeforth, G. R., 11.  
 Biddwell, J. C., 13, 14.  
 Brierly, W. G., 73.  
 Briggs, F., 26.  
 Brigham, A. A., 65.  
 Brimley, H. H., 53.  
 Brindley, J. E., 26.  
 Brink, C. M., 28.  
 Brink, R. W., 22.  
 Brinkley, E. H., 35.  
 Brinkley, L. L., 53.  
 Briscoe, C. F., 23.  
 Briscoe, J. M., 34.  
 Briscoe, L. S., 33.  
 Brittain, T. H., 68.  
 Brittingham, T. E., 75.  
 Britton, J. A., 13.  
 Britton, W. E., 16.  
 Brockett, Z. M., 15.  
 Broderick, D. C., 21.  
 Brodie, R. K., 59.  
 Broemel, G. F., 57.  
 Brooks, C., 47.  
 Brooks, E., 39, 40.  
 Brooks, F. E., 14.  
 Brooks, H. B., 59.  
 Brooks, J. F., 20.  
 Brooks, L. H., 76.  
 Brooks, N. C., 23.  
 Brooks, R. P., 19.  
 Brooks, W. E., 53.  
 Brooks, W. P., 36, 37.  
 Broome, F. H., 66.  
 Broughton, L. B., 35.  
 Broughton, N. B., 52.  
 Broussard, J. F., 32.  
 Brown, A. G., 74.  
 Brown, A. M., 37, 38.  
 Brown, B. S., 14.  
 Brown, C. E., 40.  
 Brown, C. F., 7, 69.  
 Brown, C. L., 46.  
 Brown, C. W., 38.  
 Brown, E. J., 61.  
 Brown, F. L., 29.  
 Brown, F. M., 69.  
 Brown, F. R., 59.  
 Brown, G. A., 38.  
 Brown, G. C., 65.  
 Brown, G. L., 65.  
 Brown, H., 65.  
 Brown, H. B., 41.  
 Brown, J. A., 64.  
 Brown, J. G., 12.  
 Brown, J. T., 66.  
 Brown, J. W., 35.  
 Brown, L. A., 30, 31.  
 Brown, N. C., 26.  
 Brown, P. B., 26, 27.  
 Brown, R. H., 28.  
 Brown, S., 74.  
 Brown, S. B., 74.  
 Brown, S. H., 35.  
 Brown, W., 47.  
 Brown, W. G., 42.  
 Browne, J. J., 72.  
 Browne, W. H., jr., 52.  
 Bruce, C. A., 56.  
 Brumley, O. V., 56.  
 Bruner, E. O., 32.  
 Bruner, L., 45, 46.  
 Brunson, G. H., 41.  
 Brush, J. L., 14.  
 Bryan, A. B., 63.  
 Bryan, E. A., 72.  
 Bryan, G. T., 57.  
 Bryan, J. E., 33.  
 Bryan, W. A., 21.  
 Bryant, T. R., 30, 31.  
 Buchanan, J., 27.  
 Buchanan, J. H., 27.  
 Buchanan, R. E., 26, 27.  
 Buchanan, W. S., 10.  
 Buck, J. L. B., 72.  
 Buckhout, W. A., 60, 61.  
 Buckley, S. S., 35.  
 Buckman, H. O., 51.  
 Buckner, F. T. F., 17.  
 Buckstaff, Mrs. F. G., 75.  
 Budd, J. E., 13.  
 Budd, J. T., 48.  
 Buell, T. W., 67.  
 Bugby, M. O., 56.  
 Burgess, E. M., 74.  
 Burgess, J. L., 53.  
 Bull, A. M., 39, 40.  
 Bull, C. P., 39, 40.  
 Bull, F., 44.  
 Bull, M. L., 39.

- Bull, S., 24.  
 Bullard, J. E., 32.  
 Bullen, J. C., 42.  
 Bullock, F., 45.  
 Bundy, L., 59.  
 Burch, N. C., 44.  
 Burd, J. S., 13, 14.  
 Burdick, H., 62.  
 Burger, A. A., 27.  
 Burgess, J. L., 53.  
 Burgess, J. M., 63.  
 Burghart, L. M., 34.  
 Burke, A. K., 34.  
 Burke, E., 45.  
 Burke, T. F., 76.  
 Burlingame, G. E., 62.  
 Burlingame, R. S., 62.  
 Burnett, E. A., 8, 45, 46.  
 Burnett, L. C., 27.  
 Burnett, W. L., 15.  
 Burns, G. P., 69, 70.  
 Burns, J. C., 67.  
 Burr, W. W., 46.  
 Burrage, F. S., 76, 77.  
 Burrage, L. M., 61.  
 Burrage, S., 24.  
 Burrell, W. P., 71.  
 Burrill, A. C., 75, 76.  
 Burrill, T. J., 23.  
 Burritt, E. M., 45.  
 Burson, W. M., 19.  
 Burt, F. A., 38.  
 Burt, G. J., 51.  
 Burt, J. H., 28, 29.  
 Burton, P. E., 42.  
 Burton, R. W., 9.  
 Busey, Mrs. M. E., 22.  
 Bush, L. P., 17.  
 Bushnell, L. D., 28, 29.  
 Buswell, A. M., 34.  
 Butler, H. P., 64.  
 Butler, O. R., 75, 76.  
 Butler, P., 39.  
 Butman, C. A., 36.  
 Butterfield, K. L., 36.  
 Butterfield, M., 28.  
 Butts, E. L., 39, 40.  
 Byall, S., 33.  
 Byars, L. P., 64.  
 Cable, E. Y., 27.  
 Cade, T. E., 64.  
 Cadwallader, J. M., 57.  
 Cady, Le R., 39, 40.  
 Caffrey, D. J., 16.  
 Cage, S., 57.  
 Cain, G. D., 33.  
 Caine, J. T., jr., 68.  
 Caine, J. T., III, 68, 69.  
 Caldwell, A. B., 65.  
 Caldwell, H. V., 26.  
 Caldwell, R. E., 25.  
 Calhoun, F. H. H., 63.  
 Call, L. E., 28, 29.  
 Callahan, I. B., 59.  
 Callaway, G. R., 44.  
 Calloway, R. C., 32.  
 Calvert, S., 42.  
 Calvin, Mrs. H. W., 24.  
 Calvin, J. W., 28, 29.  
 Calvin, M. V., 20.  
 Cammack, A. B., 15.  
 Camp, R. H., 45.  
 Camp, W. E., 43.  
 Campbell, C. R., 74.  
 Campbell, G., 59.  
 Campbell, J. Ph., 19.  
 Campbell, J. R., 55.  
 Campbell, L. H., 27.  
 Campbell, P. A., 34.  
 Campbell, T. M., 11.  
 Campbell, T. P., 70.  
 Campbell, W. A., 66.  
 Campbell, W. W., 10.  
 Cance, A. E., 36.  
 Canfield, G. M., 48.  
 Canfield, R. W., 67.  
 Cannon, A., 53.  
 Cannon, H. P., 17.  
 Cantey, M. A., 64.  
 Cantwell, M. A., 44.  
 Canty, J. M., 74.  
 Capen, C. A., 16.  
 Capper, A., 27.  
 Carberry, V. J., 49.  
 Cardon, P. V., 69.  
 Cardozo, F. H., 19.  
 Cardullo, F. E., 47.  
 Carey, W. L., 35.  
 Carlisle, J. N., 50.  
 Carlyle, A., 73.  
 Carlyle, W. L., 22.  
 Carman, A. P., 23.  
 Carmichael, B. E., 56.  
 Carnegie, A., 50, 60.  
 Carney, W. B., 71.  
 Carpenter, J. N., 48.  
 Carpenter, C. E., 15.  
 Carpenter, C. W., 70.  
 Carpenter, H. G., 67.  
 Carpenter, I. W., 10.  
 Carpenter, T., 30.  
 Carrel, W. J., 30.  
 Carrere, E. A., 33.  
 Carrier, L., 70, 71.  
 Carrington, J. C., 70.  
 Carroll, C. G., 12.  
 Carroll, D. H., 35.  
 Carroll, N. M., 35.  
 Carroll, W. E., 68, 69.  
 Carsten, W. J., 64.  
 Carter, C. J., 34.  
 Carter, Mrs. F. C., 74.  
 Carter, H. C., 53.  
 Carter, J. C., 71.  
 Carter, L. M., 19.  
 Carter, N., 43.  
 Carter, R. D., 12.  
 Carver, G. W., 11.  
 Cary, C. A., 9, 10.  
 Cary, C. P., 75.  
 Casho, E., 38.  
 Cassidy, H., 67.  
 Cathcart, C. S., 49.  
 Cathro, T. E., 22.  
 Catlin, C. A., 69.  
 Caton, J. E., 29.  
 Caufield, M. C., 33.  
 Cauthen, E. F., 10.  
 Cavanaugh, G. W., 51, 52.  
 Cave, R. A., 27.  
 Cehrs, C. M., 44.  
 Ceresole, P., 21.  
 Cessna, O. H., 26.  
 Chadwick, W. D., 41.  
 Chaffee, N. K., 69.  
 Chaffee, R. R., 61.  
 Chalfant, F. C., 72.  
 Challender, R. T., 44.  
 Challoner, A., 75.  
 Chamberlain, F. W., 37.  
 Chamberlain, J. S., 36.  
 Chamberlain, W. F., 44.  
 Chamberlain, W. I., 48.  
 Chambers, S. D., 34.  
 Chambliss, H., 57.  
 Champlin, M., 65.  
 Chandler, A., 11.  
 Chandler, B. A., 69.  
 Chandler, H. A. E., 12.  
 Chandler, R. E., 57.  
 Chandler, W. H., 42, 43.  
 Chapin, L. J., 73.  
 Chapman, C. W., 38.  
 Chapman, G. H., 37.  
 Chappelle, L. L., 67.  
 Charlton, I. D., 73.  
 Chase, C. F., 28, 29.  
 Chase, L. W., 45, 46.  
 Chase, M., 26.  
 Chastain, O. F., 67.  
 Chatburn, G. R., 46.  
 Chenet, H. S., 31.  
 Cherry, D. K., 54.  
 Cheyney, E. G., 39, 40.  
 Chidester, F. E., 48.  
 Chilcott, F. F., 29.  
 Childers, L. F., 22.  
 Chinn, A., 30.  
 Chipman, M. E., 21.  
 Chiquelin, G., 32.  
 Chisholm, H., 54.  
 Chisholm, J., 56.  
 Chittenden, F. H., 71.  
 Chitty, R. A., 27.  
 Chrisman, W. G., 53.  
 Christensen, F. W., 49.  
 Christensen, J. C., 29.  
 Christie, G. I., 8, 24, 25.  
 Christopher, C., 12, 13.  
 Christy, E. S., 72.  
 Chrystler, M. A., 34.  
 Church, J. E., 46.  
 Churchill, G. W., 50.  
 Churchill, J. B., 60.  
 Churchill, J. M., 16.  
 Churchill, O. O., 57, 58.  
 Clagett, W. B., 35.  
 Clair, M. W., 35.  
 Clancy, F. H., 69.  
 Clapp, S. C., 53.



- Clark, A. J., 37.  
 Clark, A. W., 50.  
 Clark, D. W., 21.  
 Clark, G., 76.  
 Clark, J. E., 49.  
 Clark, J. M., 71.  
 Clark, J. W., 60.  
 Clark, K., 69.  
 Clark, O. L., 52.  
 Clark, R. A., 11.  
 Clark, R. R., 72.  
 Clark, R. W., 44, 45.  
 Clark, S. C., 7.  
 Clark, T. A., 23.  
 Clark, T. W., 46.  
 Clark, V. E., 26, 27.  
 Clark, W. D., 60, 61.  
 Clarke, W. B., 32.  
 Clarke, W. T., 13, 14.  
 Clawson, B. J., 57, 58.  
 Claxton, P. P., 8.  
 Clay, C. M., 30.  
 Clay, W. T., 52.  
 Claybrook, J. I., 30, 31.  
 Clearwater, A. T., 48.  
 Cleghorn, A. W., 13.  
 Clem, R. R., 27.  
 Clevenger, C. H., 28.  
 Clevenger, J. F., 61.  
 Clevenger, W. L., 56.  
 Clines, P. J., 20.  
 Clinton, G. H., 31.  
 Clinton, G. P., 16.  
 Clinton, L. A., 16.  
 Clopath, H., 39.  
 Clothier, G. L., 73.  
 Clothier, R. W., 12.  
 Coates, C. E., 32.  
 Cobb, A. C., 57.  
 Cobb, C. A., 41.  
 Cobb, G. R., 62.  
 Cobb-Carter, Mrs. F., 74.  
 Cobleigh, W. A., 44.  
 Coburn, H. D., 77.  
 Coburn, J. L., 68.  
 Cocks, R. P., 71.  
 Cochel, W. A., 60, 61.  
 Cochran, D. C., 62.  
 Codd, A. A., 46.  
 Coe, E. B., 47.  
 Coen, B. F., 15.  
 Cofer, D. B., 67.  
 Coffey, A. B., 32.  
 Coffey, G. N., 57.  
 Coffey, W. C., 23, 24.  
 Coffin, M. L., 39, 40.  
 Cohen, J., 10.  
 Coit, J. E., 13, 14.  
 Colburn, F. E., 27.  
 Colby, G. E., 13, 14.  
 Cole, D., 48.  
 Cole, J. T., 32.  
 Cole, L. J., 75, 76.  
 Cole, P. T., 71.  
 Cole, V. E., 16.  
 Coleman, L. L., 31.  
 Collett, R. W., 53.  
 Collier, E. T., 9.  
 Collier, F. J., 48.  
 Collins, S. F., 31.  
 Collins, V. H., 44.  
 Collins, V. S., 35.  
 Collison, R. C., 57.  
 Collison, S. E., 18.  
 Colliver, W. D., 25.  
 Colpitts, J. T., 26.  
 Colver, C. W., 22.  
 Colvin, C., 34.  
 Colwell, R. H., 74.  
 Comstock, A. B., 51.  
 Comstock, J. H., 51, 52.  
 Comstock, L., 34.  
 Condit, L. M., 65.  
 Condra, G. E., 45.  
 Cone, V. M., 7, 15.  
 Conn, G. W., 29.  
 Conn., H. J., 50.  
 Conn., H. W., 16.  
 Connaway, J. W., 42, 43.  
 Connell, J. H., 8, 57.  
 Conner, A. B., 67.  
 Conner, J. J., 19.  
 Conner, S. D., 24, 25.  
 Conner, W. G., 70.  
 Conolly, H. M., 9, 10.  
 Conrad, L. E., 28.  
 Conradi, A. F., 63, 64.  
 Conser, H. N., 34.  
 Converse, G. L., 50.  
 Converse, J. E., 66.  
 Conway, W. T., 49.  
 Conwell, C. S., 17.  
 Conwell, S. L., 17.  
 Cook, E., 40.  
 Cook, G. B., 12.  
 Cook, I. S., jr., 74.  
 Cook, L. B., 51, 52.  
 Cook, M. T., 48.  
 Cook, P., 48.  
 Cook, R. B., 68.  
 Cook, S. B., 44.  
 Cook, W. A., 61.  
 Cook, W. M., 56.  
 Cooke, A. A., 72.  
 Cooke, C. M., 20.  
 Cooke, E. B., 10.  
 Cooke, J. P., 21.  
 Cooke, J. W., 33.  
 Cooley, J. S., 71.  
 Cooley, R. A., 44, 45.  
 Coons, G. H., 38.  
 Coope, J., 72.  
 Cooper, B., 68.  
 Cooper, D. W., 48.  
 Cooper, E. L., 26.  
 Cooper, H. E., 20.  
 Cooper, J. W., 71.  
 Cooper, L. L., 32.  
 Cooper, R. M., 20.  
 Cooper, S. W., 7.  
 Cooper, W. B., 52.  
 Cooper, W. H., 26.  
 Coover, W. F., 26.  
 Copson, G. V., 59.  
 Corbett, L. C., 71.  
 Corbett, L. J., 22.  
 Corbett, L. L., 71.  
 Corbett, L. S., 30, 31.  
 Corbett, V. H., 15.  
 Corbit, D. W., 17.  
 Cordery, G. T., 36.  
 Cordley, A. B., 58, 59.  
 Corley, J. W. L., 57.  
 Cornelius, A. B., 51.  
 Cornell, C. E., 50.  
 Corotis, M. E., 56.  
 Corput, F., 20.  
 Corson, O. T., 55.  
 Cortelyou, J. V., 28.  
 Corwin, R. W., 14.  
 Cory, E. N., 35.  
 Cosgriff, H. C., 27.  
 Cosh, G. M., 51.  
 Costello, M. F. P., 26.  
 Cotton, E. C., 66.  
 Cotton, W. W., 58.  
 Couch, F. F., 48.  
 Coulter, S., 24.  
 Councilman, C. A., 35.  
 Coupland, G., 45.  
 Cousins-Dorsey, E., 74.  
 Covell, G. A., 58.  
 Cowan, J., 46.  
 Cowan, T. N., 11.  
 Cowles, I. F., 28.  
 Cowgill, H. B., 62.  
 Cowgill, P. E., 53.  
 Cowgill, Mrs. T. W., 46.  
 Cowper, R. J., 77.  
 Cox, G., 44.  
 Cox, H. W., 18.  
 Cox, N. H., 18.  
 Cox, R., 68.  
 Cox, W. H., 30.  
 Crabbe, J. B., 15.  
 Crabtree, P. E., 29.  
 Craig, C. E., 24.  
 Craig, F. S., 33.  
 Craig, J., 51, 52.  
 Craig, M. B., 44.  
 Craig, R. A., 24, 25.  
 Craigh, W., 34.  
 Crain, R., 35.  
 Crampton, G. C., 36.  
 Crandall, C. S., 23, 24.  
 Crandall, W. T., 23, 24.  
 Crane, B. A., 19.  
 Crane, O., 25.  
 Cranford, C. C., 53.  
 Cravens, W. H., 12.  
 Crawford, H. C., 18.  
 Crawford, J. F., 76.  
 Crawford, J. H., 68.  
 Crawford, N. A., jr., 29.  
 Crawley, J. T., 62.  
 Crayne, A. Z., 58.  
 Creasy, W. T., 60.  
 Crebs, J. M., 22.  
 Creese, M., 35.  
 Crenshaw, B. H., 9.  
 Creswell, M. E., 19.

- Crews, M., 18.  
 Crider, F. J., 53.  
 Crigler, N. B., 23.  
 Crisp, H. L., 35.  
 Critchfield, N. B., 60.  
 Crittenden, R. F., 20.  
 Critz, H., 41.  
 Crocker, W. H., 13.  
 Crockett, J. B., 67.  
 Crockett, W. D., 60.  
 Cromer, C. O., 25.  
 Crookston, J., 69.  
 Cropper, L. M., 19.  
 Crosby, C. R., 51, 52.  
 Crosby, D. J., 6, 7.  
 Cross, L. J., 51.  
 Cross, M. B., 68.  
 Cross, P. J., 38.  
 Cross, W. E., 32.  
 Crouse, R. W., 72.  
 Crow, A. C., 37.  
 Crow, C. L., 18.  
 Crowe, C. P., 56.  
 Crowe, S. E., 38.  
 Crowley, T. F., 33.  
 Cruess, W. V., 14.  
 Crumley, J. J., 56.  
 Crutcher, W. H., 19.  
 Cummings, M. B., 69, 70.  
 Cunningham, C. C., 29.  
 Cunningham, G. C., 70.  
 Cunningham, J. C., 26.  
 Cunningham, O. C., 56.  
 Curl, M. J., 61.  
 Currie, J. N., 16.  
 Currier, G. W., 47.  
 Curry, B. E., 47.  
 Curtis, A. W., 74.  
 Curtis, C. M., 17.  
 Curtis, H. E., 30, 31.  
 Curtis, M. R., 34.  
 Curtis, R. S., 53.  
 Curtis, W. C., 42.  
 Curtiss, C. D., 38.  
 Curtiss, C. F., 8, 26, 27.  
 Cusick, J. T., 50.  
 Cutler, C., 25.  
 Dachnowski, A. P., 56.  
 Dacy, A. L., 74.  
 Daggett, W. P., 34.  
 Dahl, A. H., 75.  
 Dale, H. C., 68.  
 Dales, J. S., 45, 46.  
 Dalrymple, W. H., 32, 33.  
 Danel, J. W., 44.  
 Damon, S. C., 63.  
 Daniel, D. W., 63.  
 Daniel, W. E., 52.  
 Daniels, A. L., 43.  
 Danielson, H. R., 40.  
 Darby, A. L., 74.  
 Darden, W. A., 53.  
 Darling, F. W., 71.  
 Darnall, H. J., 66.  
 Darst, W. H., 56.  
 Daughters, M. R., 59.  
 Davee, E. W., 34.  
 Davenport, C. C., 31.  
 Davenport, F., 8, 23.  
 David, E. J., 47.  
 Davidson, J. B., 26, 27.  
 Davidson, R. J., 70.  
 Davies, H., 30.  
 Davies, P. M., 24.  
 Davis, A. H., 38.  
 Davis, B. F., 37.  
 Davis, C., 66, 67.  
 Davis, C. C., 64.  
 Davis, E. A., 19.  
 Davis, E. B., 48.  
 Davis, E. G., 51.  
 Davis, E. H., 24.  
 Davis, E. P., 61.  
 Davis, G. A., 29.  
 Davis, G. J., 72.  
 Davis, H., 74.  
 Davis, H. L., 45.  
 Davis, H. S., 18.  
 Davis, J. M., 30.  
 Davis, K. C., 48.  
 Davis, L. M., 13, 14.  
 Davis, Mary E., 11.  
 Davis, Minnie E., 11.  
 Davis, P. A., 57.  
 Davis, P. J., 57.  
 Davis, R., 38.  
 Davis, T., 17.  
 Davis, V. H., 56.  
 Davis, W., 41.  
 Davis, W. R., 64.  
 Day, A., jr., 68.  
 Dean, G. A., 28.  
 Dean, W. H., jr., 67.  
 Dearborn, C. S., 44.  
 Debnam, W. F., 54.  
 De Camp, G. E., 48.  
 Deemer, R. B., 25.  
 Deerr, N., 21.  
 De Lay, F. A., 15.  
 Delgado, R. H., 62.  
 De Loach, R. J. H., 19.  
 Delwiche, E. J., 75, 76.  
 Demaree, J. B., 35.  
 Demarest, W. H. S., 47, 48.  
 De Meritt, M., 47.  
 Deneen, C. S., 22.  
 Denise, D. D., 48.  
 Denney, G., 39, 40.  
 Denney, J. V., 55.  
 Denny, G. (Neb.), 45.  
 Denny, G. (Wis.), 75.  
 Denson, N. D., 9.  
 Deputy, G. W., 17.  
 Derby, G. E., 28.  
 Derby, S. H., 17.  
 Derby, W. B., 70.  
 de Regt, A. C., 48.  
 Dern, J., 68.  
 Detjen, L. R., 53.  
 Detmers, F., 56.  
 Dett, R. N., 44.  
 Deuel, R. E., 51.  
 Dew, J. A., 64.  
 Dewey, D. R., 36.  
 De Yarmett, C. H., 72.  
 De Yarmett, H. J., 72.  
 De Zeeuw, R., 37.  
 Dickens, A., 28, 29.  
 Dickerson, I. W., 23.  
 Dickinson, A. D., 73.  
 Dickinson, L. P., 62.  
 Dickinson, M. F., 36.  
 Didlake, M. Le G., 30, 31.  
 Diehl, D., 57.  
 Dietrich, W., 23, 24.  
 Dill, J. W., 42.  
 Dillehunt, H. B., 35.  
 Dillingham, F. T., 21.  
 Dillingham, W. P., 69.  
 Dillon, C., 28.  
 Dilts, E. A., 15.  
 Dimock, W. W., 26.  
 Dinan, A. P., 54.  
 Dingus, J. A., 58.  
 Dinsmore, S. C., 46.  
 Dinwiddie, R. R., 12, 13.  
 Dittman, J., 40.  
 Dix, J. A., 50.  
 Doane, D. H., 42, 43.  
 Dobell, R. H., 59.  
 Dodge, D. K., 23.  
 Dodge, F. H., 48.  
 Dodson, W. R., 32, 33.  
 Doggett, C. S., 63.  
 Doherty, A. J., 37.  
 Dohrmann, F. W., 13.  
 Dole, C. F., 10.  
 Dolman, A. M., 24.  
 Dolt, M. L., 54, 55.  
 Dolve, R. M., 54, 55.  
 Donaghey, G. W., 12.  
 Donaghoe, J. S., 21.  
 Donahue, M. J., 9.  
 Donaldson, J. W., 54.  
 Donaldson, M. L., 63.  
 Donaldson, O., 11.  
 Doneghue, R. C., 54, 55.  
 Donnelly, J., 54.  
 Donovan, E., 16.  
 Doran, E. B., 32.  
 Dorer, G., 48.  
 Dorner, H. B., 23, 24.  
 Dorsey, E. C., 74.  
 Dorsey, M. J., 40.  
 Doryland, C. J. T., 54, 55.  
 Doten, S. B., 46.  
 Dougherty, J. E., 24, 25.  
 Douglass, A. E., 12.  
 Douglass, E., 15.  
 Douglass, I. W., 12.  
 Douglass, T. R., 43.  
 Dow, B. K., 16.  
 Dow, U. M., 28.  
 Dow, V. W., 72.  
 Downing, C., 24.  
 Downing, G. M., 60.  
 Dowsett, J. M., 21.  
 Dox, A. W., 27.  
 Drake, J. H., 9.  
 Drew, E. C., 34.

- Drew, J. M., 39, 40.  
 Drew, W., 47.  
 Drew, W. S., 68.  
 Drewry, N. B., 20.  
 Drinkard, A. W., 70.  
 Drinkard, A. W., jr., 71.  
 Drisdale, C. B., 68.  
 Driver, V., 11.  
 Drummond, R. R., 34.  
 Dryden, C., 26.  
 Dryden, J., 58, 59.  
 Du Bose, M. D., 19.  
 Duckett, J. W., 61.  
 Ducong , E., 33.  
 Dudley, J. B., 54.  
 Duggar, B. M., 51, 52.  
 Duggar, J. F., 8, 9, 10.  
 Duke, T. T., 57.  
 Dukes, A. L., 64.  
 Dulany, H. S., 35.  
 Du Mez, A. G., 57.  
 Dunbar, B. A., 65.  
 Duncan, C., 72.  
 Duncan, C. R., 36.  
 Duncan, C. S., 56.  
 Duncan, L. N., 9, 10.  
 Dunford, C. S., 38.  
 Dunford, Mrs. H. L., 68.  
 Dunlop, R., 58.  
 Duppert, W. J., 45.  
 Durand, E. J., 42.  
 Durgin, A. G., 34.  
 Durst, C. E., 23, 24.  
 Durward, M., 15.  
 Duryee, J. R., 48.  
 Dusenbury, E. G., 50.  
 Dusham, E. H., 27.  
 Dutton, G. C., 51.  
 Dutton, G. E., 17.  
 Dutton, J. E., 17.  
 Dwight, T. W., 64.  
 Dwyer, J. K., 32.  
 Dye, F., 8.  
 Dye, W. S., jr., 61.  
 Dykstra, R. R., 28, 29.  
 Dynes, O. W., 54, 55.  
 Earhart, R. F., 56.  
 Earl, G. C., 13.  
 Earle, S. B., 63.  
 Easley, C. W., 34.  
 Eason, F. G., 7.  
 Eastman, F. B., 17.  
 Eastwood, G. R., 56.  
 Eaton, A. T., 66.  
 Eaton, E., 40.  
 Eaton, W. H., 53.  
 Eberhardt, E. A., 26.  
 Eberhart, A. O., 39.  
 Eckart, C. F., 21.  
 Eckhardt, W. G., 23.  
 Eckles, C. H., 42, 43.  
 Eckman, O. L., 47.  
 Eddy, M. W., 61.  
 Edelen, T. L., 30.  
 Edgar, C. L., 48.  
 Edgerly, G. W., 47.  
 Edgerton, C. W., 33.  
 Edmiston, H. D., 61.  
 Edmond, H. D., 16.  
 Edmonds, J. L., 23, 24.  
 Edmonds, M., 56.  
 Edmunds, E. A., 75.  
 Edson, C., 57.  
 Edwards, A. A., 14.  
 Edwards, A. L., 59.  
 Edwards, G. R., 42.  
 Edwards, H., 8, 62.  
 Edwards, J. H., 50.  
 Edwards, N. B., 68.  
 Eggleston, J. D., 70.  
 Ehrhart, T. J., 14.  
 Eichling, H. L., 26.  
 Eiesland, J. A., 74.  
 Eisenlohr, B. A., 56.  
 Ekblaw, K. J. T., 23.  
 Elder, L. W., 73.  
 Eldred, M. D., 62.  
 Eldridge, J. G., 22.  
 Ellett, W. B., 71.  
 Ellington, E. V., 22.  
 Ellington, J. O., 52.  
 Elliott, C. G., 7.  
 Elliott, F. L., 41.  
 Elliott, J. C., 57.  
 Elliott, P., 54.  
 Elliott, T. I., 35.  
 Ellis, G. H., 36.  
 Ellis, W. T., 52.  
 Ellsworth, E. A., 24.  
 Ellsworth, J. L., 36.  
 Elser, W. L., 56.  
 Elwell, A. E., 15.  
 Elwell, G., 39, 40.  
 Emberson, R. H., 43.  
 Embody, G. C., 51.  
 Embry, J. F., 44.  
 Emerson, F. V., 43.  
 Emerson, R. A., 45, 46.  
 Emery, E. S., 44.  
 Emmett, A. D., 24.  
 Emmons, L. C., 38.  
 Ende, C. L. von, 22.  
 Enders, H. E., 24.  
 English, D., 73.  
 English, J. N., 19.  
 Enloe, W. A., 53.  
 Enochs, I. C., 41, 42.  
 Enyart, B. A., 28.  
 Eppler, W. F., 25.  
 Erb, E. S., 61.  
 Erdman, J., 15.  
 Erf, O., 55.  
 Erickson, M., 54.  
 Erwin, A., 65.  
 Erwin, A. T., 26.  
 Eskew, M. H., 9.  
 Espenshade, A. H., 60.  
 Essary, S. H., 66.  
 Esten, W. M., 16.  
 Estes, C., 62.  
 Eswine, H. E., 56.  
 Etcheverry, B. A., 13.  
 Etheridge, W. C., 53.  
 Eubank, M., 74.  
 Eudaly, E. R., 10.  
 Eustace, H. J., 37, 38.  
 Evans, A. L. (Ala.), 11.  
 Evans, A. L. (Tex.), 68.  
 Evans, C. B., 17.  
 Evans, C. H., 35.  
 Evans, C. M., 67.  
 Evans, E., 75.  
 Evans, E. A., 38.  
 Evans, H., 56.  
 Evans, H. J., 26.  
 Evans, Mrs. L. B., 22.  
 Evans, M., 57.  
 Evans, P., 43.  
 Evans, P. N., 24.  
 Evans, W. D., 63.  
 Evans, W. H., 6.  
 Evans, W. L., 56.  
 Evans, W. W., 57, 58.  
 Evvard, J. M., 27.  
 Ewan, A. E., 30, 31.  
 Ewell, A. D., 68.  
 Ewell, Mrs. R. L., 68.  
 Ewing, A. L., 40.  
 Ewing, E. C., 41.  
 Ewing, H. E., 59.  
 Eyer, B. F., 28.  
 Eyerly, E. K., 36.  
 Fabi n, R., 62.  
 Fain, J. R., 19.  
 Fairfield, Mrs. M. P., 26.  
 Faris, B. M., 64.  
 Farley, A. J., 49.  
 Farmer, E., 42.  
 Farmer, M. D., 38.  
 Farnham, W. E., 34.  
 Farquhar, E. F., 30.  
 Farr, J. M., 18.  
 Farrington, E. H., 75, 76.  
 Fassett, G. S., 69.  
 Faurot, F. W., 43.  
 Faville, A. D., 77.  
 Favrot, L. M., 32.  
 Fawcett, G. L., 7, 62.  
 Fawcett, H. S., 18.  
 Fay, L. E., 66.  
 Feagin, W. F., 9.  
 Feeley, R. O., 63.  
 Fehn, A. R., 29.  
 Fehr, C. D., 60.  
 Felmy, W., 21.  
 Fenton, C. L., 67.  
 Fenwick, I. H., 72.  
 Ferguson, J. A., 42, 43.  
 Ferguson, J. T., 20.  
 Ferguson, O. W., 11.  
 Fergusson, S. P., 46.  
 Fernier, E. J., 67.  
 Fernald, C. F., 36.  
 Fernald, H. T., 36, 37.  
 Ferrin, E. F., 67.  
 Ferris, E. B., 42.  
 Ferry, E. L., 16.  
 Ferry, E. S., 24.  
 Fetzner, L. W., 6.

- Fields, M. E., 57.  
 Filley, H. H., 45.  
 Filley, W. O., 16.  
 Fink, D. E., 51.  
 Finlayson, W. D., 18.  
 Finley, J. B., 73, 74.  
 Finner, E. R., 75, 76.  
 Finney, E. L., 40.  
 Fippin, E. O., 51, 52.  
 Firor, G. W., 19.  
 Firor, J. W., 19.  
 Fischer, E. G., 38.  
 Fishburn, H. P., 22.  
 Fisher, F. A., 23.  
 Fisher, M. L., 24, 25.  
 Fisher, O. S., 23.  
 Fisk, W. W., 51, 52.  
 Fiske, N. W., 69.  
 Fitch, C. L., 15.  
 Fitch, J. B., 29.  
 Fitch, M. A., 25.  
 Fitterer, J. C., 77.  
 Fitts, E. B., 16.  
 Fitts, J. N., 16.  
 Fitz, L. A., 28, 29.  
 Fitzgerald, J. K., 67.  
 Fitzpatrick, H. M., 51.  
 Flack, O., 57.  
 Fleming, A. M., 68.  
 Fleming, A. W., 26.  
 Fleming, B., 51.  
 Fleming, F. P., jr., 18.  
 Fleming, W. L., 32.  
 Fletcher, C., 68.  
 Fletcher, S. W., 70, 71.  
 Flewellen, A. E., jr., 68.  
 Flint, A. K., 56.  
 Flint, C. L., 59.  
 Flint, E. R., 18.  
 Flint, P. N., 28, 29.  
 Florance, W. E., 48.  
 Flossfeder, F. C. H., 14.  
 Flowe, B. B., 53.  
 Flowerday, G. H., 32.  
 Floyd, B. F., 18.  
 Floyd, E. V., 28.  
 Floyd, J. W., 64.  
 Floyd, W. L., 18.  
 Foglesong, L. E., 24.  
 Folger, H., 45.  
 Folk, G. H., 63.  
 Folsom, J. W., 23.  
 Foord, J. A., 36.  
 Forbes, E. B., 56.  
 Forbes, R. H., 12.  
 Forbes, S. A., 23.  
 Forbes, W. P., 45.  
 Ford, C., 29.  
 Ford, F., 49.  
 Ford, F. J. R., 72.  
 Ford, F. W., 64.  
 Ford, H., 35.  
 Forman, L. W., 26.  
 Forristall, E. H., 36.  
 Forsee, R. B., 65.  
 Fortier, S., 7.  
 Foss, E. N., 36, 69.  
 Foster, A. W., 13.  
 Foster, I. L., 60.  
 Foster, J. H., 47.  
 Foster, L., 49.  
 Foster, S., 24.  
 Foster, T. D., 25.  
 Foster, W. D., 73.  
 Fountain, C. P., 66.  
 Foust, J. I., 53.  
 Fowler, C. C., 27.  
 Fowler, J. M., 24.  
 Fowler, W. L., 12.  
 Fox, W. W., 42.  
 Fracker, S. B., 26.  
 Francis, C. K., 57, 58.  
 Francis, D. R., 42.  
 Francis, M., 66, 67.  
 Frandsen, P., 46.  
 Frandson, J. H., 45, 46.  
 Franklin, H. J., 37.  
 Frantz, S. O., 60.  
 Fraps, G. S., 66, 67.  
 Fraser, W. J., 23.  
 Frazer, J. S., 9.  
 Frazier, J. S., 20.  
 Frazier, W. H., 39, 40.  
 Frazier, W. W., 71.  
 Frear, D. W., 15.  
 Frear, J. B., 39, 40.  
 Frear, W., 60, 61.  
 Fred, E. B., 71.  
 Frederick, H. J., 68, 69.  
 Freeman, E. M., 39, 40.  
 Freeman, G. F., 12.  
 Freeman, H. H., 33.  
 Freeman, M. L., 41.  
 Freeman, M. P., 11.  
 Frelinghuysen, F., 47.  
 French, G. T., 50.  
 French, T. E., 56.  
 French, W. H. (Mich.), 37.  
 French, W. H. (N. Y.), 50.  
 French, W. L., 45, 46.  
 Frevert, G. E., 22.  
 Freyhofer, L., 38.  
 Frieberg, A., 64.  
 Friedrich, L., 33.  
 Frier, G. M., 25.  
 Fries, J. A., 62.  
 Friley, C. E., 67.  
 Frissell, H. B., 71, 72.  
 Frizzell, J. H., 60.  
 Frizzelle, B., 67.  
 Froerer, F., 69.  
 Fromme, N. K., 65.  
 Frost, H. L., 36.  
 Fry, E. A., 60.  
 Fullan, M. T., 9.  
 Fullaway, D. T., 6, 21.  
 Fuller, F. D., 25.  
 Fuller, H. N., 48.  
 Fuller, J. G., 75, 76.  
 Fuller, P. E., 7.  
 Fuller, R. G., 33.  
 Fuller, R. M., 72.  
 Fulmer, E., 72, 73.  
 Fulton, H. R., 60, 61.  
 Fulton, J., 58.  
 Funchess, M. J., 9, 10.  
 Funk, A. B., 25.  
 Funk, E., 22.  
 Fuqua, H. L., 31, 32.  
 Furley, C., 28.  
 Furman, C. M., 63.  
 Pyffe, D. M., 56.  
 Gaede, H. A., 48.  
 Gaessler, W. G., 27.  
 Gage, E. V., 60.  
 Gage, G. E., 36.  
 Gahan, A. B., 35.  
 Gain, J. H., 45, 46.  
 Gaines, E. F., 73.  
 Gaines, W. L., 24.  
 Gainey, P. L., 43.  
 Gaither, E. W., 57.  
 Galehouse, D. H., 57.  
 Gallagher, E., 57.  
 Galpin, C. J., 75, 76.  
 Gamble, A., 74.  
 Gamble, M. E., 24.  
 Gamble, M. G., 20.  
 Gantt, J. W., 63.  
 Garcia, F., 49.  
 Gardner, A. B., 63.  
 Gardner, D. C., 22.  
 Gardner, F. D., 60, 61.  
 Gardner, J. J., 47.  
 Gardner, O. M., 52.  
 Gardner, V. R., 59.  
 Gardner, W., 69.  
 Garig, L., 32.  
 Garig, M., 32.  
 Garman, H., 30, 31.  
 Garner, A. W., 41.  
 Garner, J. D., 67.  
 Garner, P. P., 41.  
 Garrett, F. W., 23.  
 Garrett, J. B., 33.  
 Garrett, W. V., 44.  
 Garrety, W. P., 7.  
 Garrigus, H. L., 16.  
 Garrison, W. D., jr., 64.  
 Garrison, W. E., 49.  
 Gartley, A., 20, 21.  
 Garver, M. M., 60.  
 Garver, S., 65.  
 Gaskill, E. F., 37.  
 Gaskins, W. F., 59.  
 Gass, H. A., 44.  
 Gasser, G. W., 6, 11.  
 Gates, B. N., 36, 37.  
 Gates, W. H., 32.  
 Gaumnitz, A. J., 14.  
 Gearhart, W. S., 29.  
 Gee, W. P., 63.  
 Geismar, L. M., 38.  
 Geist, G. A., 67.  
 George, C. P., 49.  
 Georgeson, C. C., 6, 11.  
 Georgia, A. E., 51.  
 Gerac, H., 32.  
 Gericke, M. L., 6.  
 Gernert, W. B., 24.



- Gerrett, F., 36.  
 Gessner, M. S., 17.  
 Gettemy, W. S., 26.  
 Getz, Mrs. A. T., 33.  
 Gibbons, H., 66.  
 Gibbs, C. M., 23.  
 Gibbs, W. D., 8, 47.  
 Gibson, J. A., 43.  
 Giddings, N. J., 74.  
 Giesecke, F. E., 66.  
 Giesecker, L. F., 45.  
 Gilbert, A. G., 72.  
 Gilbert, A. H., 30.  
 Gilbert, A. W., 51, 52.  
 Gilbert, G. A., 15.  
 Gilchrist, A. W., 18.  
 Gilchrist, M., 37.  
 Gilchrist, N. L., 38.  
 Gile, P. L., 7, 62.  
 Giles, E. A., 67.  
 Giles, E. W., 35.  
 Gilkey, R., 51.  
 Gill, B., 60.  
 Gill, E. T., 48.  
 Gillette, C. P., 8, 15.  
 Gillison, B., 64.  
 Gilman, R., 29.  
 Gilmore, G., 19.  
 Gilmore, J. W., 21.  
 Gilmore, R. J., 51.  
 Gilreath, B., 10.  
 Gilruth, I. T., 44.  
 Gilson, I., 38.  
 Giltner, W. G., 38.  
 Gingery, J. B., 29.  
 Giorgetti, E., 62.  
 Gissendanner, A. R., 10.  
 Given, G. C., 60, 61.  
 Gladwin, F. E., 50.  
 Glasson, E. J., 6.  
 Gleason, C. A., 36.  
 Glenn, J. A., 41, 42.  
 Glenn, M. A., 9.  
 Glenn, S., 58.  
 Glover, G. H., 15.  
 Glover, L. L., 10.  
 Gloyer, W. O., 57.  
 Gobble, C. F., 24.  
 Goddard, L. H., 56.  
 Goddard, M., 65.  
 Godin, F. J., 62, 63.  
 Goessmann, H., 36.  
 Goetz, C. H., 56.  
 Gold, C. W., 52.  
 Golder, F. A., 73.  
 Goldsborough, F. C., 35.  
 Goldsborough, P. L., 35.  
 Goldthwaite, N. E., 23.  
 Goll, H. L., 56.  
 Good, E. S., 30, 31.  
 Goodling, C. L., 61.  
 Goodwin, S. H., 69.  
 Goodwin, W. H., 56.  
 Gordon, A. W., 28.  
 Gordon, C. E., 36.  
 Gordon, C. H., 66.  
 Gordon, J., 41, 42.  
 Gordon, J. H., 7.  
 Gordon, R. A., 42.  
 Gorman, A. P., 35.  
 Goss, A., 25.  
 Goss, L. W., 28, 29.  
 Gossard, H. A., 56.  
 Goucher, J. F., 35.  
 Gould, S. W., 34.  
 Gourley, J. H., 56.  
 Gow, R. M., 12, 13.  
 Gowans, E. B., 72.  
 Graber, L. F., 75, 76.  
 Grady, J., 75.  
 Graham, A. B., 8, 56.  
 Graham, C. K., 72.  
 Graham, K. H., 18.  
 Graham, J. C., 36.  
 Graham, J. J. T., 41.  
 Graham, R., 30, 31.  
 Graham, R. D., 37.  
 Graham, W. A., 53.  
 Gramlich, H. J., 45.  
 Gramm, O., 76.  
 Grant, C. I., 56.  
 Grant, J. C., 10.  
 Grant, S. A., 20.  
 Grantham, A. E., 17.  
 Gravatt, F., 70.  
 Gravatt, T. E., 60.  
 Grave, B. H., 77.  
 Graves, A. S., 74.  
 Gray, C. E., 23.  
 Gray, D. T., 9, 10.  
 Gray, G. P., 14.  
 Gray, J. C., 60, 61.  
 Gray, R. P., 34.  
 Graybill, J. L., 72.  
 Grayson, D. A., 10.  
 Greaves, J. E., 68, 69.  
 Green, C. R., 36, 37.  
 Green, G. R., 56.  
 Green, L. M., 73.  
 Green, S. J., 33.  
 Green, W. J., 56.  
 Green, W. W., 71.  
 Greene, C. W., 11.  
 Greene, E. B., 23.  
 Greene, J. H., 17.  
 Greene, L., 27.  
 Greenway, J. C., 11.  
 Greer, R. A., 65.  
 Greever, G., 12.  
 Gregg, C. J., 64.  
 Gregg, J. W., 60, 61.  
 Gregory, C. T., 51, 52.  
 Gregory, W. B., 7.  
 Grief, A. J., 62.  
 Griffin, H. P., 44.  
 Griffin, J. T., 71.  
 Griffin, L. G., 57.  
 Griffin, W., jr., 69.  
 Griffith, J. B., 18.  
 Griffith, W. A., 35.  
 Griggs, C. H., 68.  
 Griggs, R. F., 56.  
 Grimes, N. C., 12.  
 Grindley, H. S., 23, 24.  
 Griswold, D. T., 67.  
 Grossenbacher, J. G., 50.  
 Grossman, J. D., 25.  
 Groth, B. H. A., 48.  
 Grout, A. P., 22.  
 Grout, G. P., 39, 40.  
 Grover, A. L., 34.  
 Groves, E. R., 47.  
 Groves, M. E., 64.  
 Grunsky, H. W., 7.  
 Guell, A., 32.  
 Guell, A. R., 32.  
 Guernsey, S. C., 27.  
 Guild, F. N., 12.  
 Guion, J. I., 66, 67.  
 Gulley, A. G., 16.  
 Gummere, W. S., 47.  
 Gunderson, A. J., 24.  
 Gunderson, C., 57.  
 Gunness, C. I., 54.  
 Gunson, T., 38.  
 Gunter, P. G., 67.  
 Gurney, L. E., 22.  
 Guss, S. H., 74.  
 Gustafson, A. F., 23.  
 Guthrie, J. D., 56.  
 Guthrie, C. P., 55.  
 Guthrie, D. V., 32.  
 Guthrie, F. S., 51, 52.  
 Guthrie, J. E., 26.  
 Gwinner, H., 35.  
 Hackedorn, H., 43.  
 Hackleman, J. C., 43.  
 Haddon, C. B., 63.  
 Haddon, T. C., 63.  
 Haden, H. E., jr., 67.  
 Hadley, F. B., 75, 76.  
 Hadley, H., 49.  
 Hadley, M. B., 18.  
 Hadley, P. B., 63.  
 Hadlock, W. L., 73.  
 Haecker, T. L., 39, 40.  
 Hagemann, E. H., 13, 14.  
 Hagerty, C. T., 49.  
 Hagerty, J. E., 55.  
 Haggart, A. G., 54.  
 Haggart, M. H., 15.  
 Hahn, A., 57.  
 Haigh, L. D., 43.  
 Haines, C. M., 67.  
 Haines, W. T., 34.  
 Hall, A. G., 7.  
 Hall, E. C., 43.  
 Hall, E. W., 55.  
 Hall, F. H., 50.  
 Hall, F. P., 12.  
 Hall, G., 22.  
 Hall, H. M., 13, 14.  
 Hall, J. G., 63.  
 Hall, J. T., 42.  
 Hall, L. D., 23, 24.  
 Hall, W. N., 7.  
 Haller, F. L., 45.  
 Halligan, C. P., 37, 38.  
 Halligan, J. B., 71.  
 Halligan, J. E., 32, 33.

- Hallowell, R. N., 37.  
 Hallsted, A. L., 29.  
 Halpin, J. G., 75, 76.  
 Halstead, J. E., 52.  
 Halsted, B. D., 48.  
 Ham, F. W., 44.  
 Ham, W. R., 60.  
 Hamill, J. L., 60.  
 Hamilton, A. B., 76.  
 Hamilton, E. W., 22.  
 Hamilton, J., 7, 8.  
 Hamilton, J. B., 66.  
 Hamilton, J. H., 62.  
 Hamilton, J. M., 8, 44.  
 Hamilton, J. O., 28.  
 Hamlin, T. L., 34.  
 Hammer, B. W., 26, 27.  
 Hammett, F. S., 63.  
 Hammond, H. S., 49.  
 Hammond, J. W., 56.  
 Hammond, M. B., 55.  
 Hammond, R. L., 34.  
 Hammond, T. M., 75.  
 Hammond, W. F., 70.  
 Hammond, W. R., 20.  
 Hampson, C. B., 22.  
 Hand, J. L., 19.  
 Hand, W. F., 41.  
 Handschin, W. F., 23, 24.  
 Haneman, A. H., 33.  
 Haner, Mrs. J. L. K., 22.  
 Hanford, J. G., 7.  
 Hanger, W. E., 35.  
 Hansen, A. J., 69.  
 Hansen, N. E., 65.  
 Hanson, H. H., 34.  
 Haralson, C., 40.  
 Haralson, F., 40.  
 Harbert, J. F., 31.  
 Harbert, Mrs. R. B., 68.  
 Harbold, R. P., 28.  
 Hard, H. A., 54.  
 Harden, F. G., 7.  
 Hardin, M. B., 63.  
 Harding, A. S., 65.  
 Harding, H. A., 50.  
 Harding, S. T., 7.  
 Hardman, L. G., 19, 20.  
 Hardy, J. C., 8, 41.  
 Hardy, J. I., 66.  
 Hare, A. J., 74.  
 Hare, B. B., 6.  
 Hare, C. L., 9, 10.  
 Hare, C. W., 10.  
 Hare, R. F., 49.  
 Hare, W. B., 51.  
 Hargreaves, S., 70.  
 Haring, C. M., 13, 14.  
 Harkins, L. A., 44.  
 Harley, H. L., 61.  
 Harmount, W. L., 36.  
 Harned, R. W., 41.  
 Harper, E. B., 45.  
 Harper, J. N., 61.  
 Harper, M. W., 51, 52.  
 Harrall, N. A., 62.  
 Harrelson, J. W., 53.  
 Harrington, Mrs. I. S., 51.  
 Harrington, W. W., 17.  
 Harris, A. C., 24.  
 Harris, A. L. (Kans.), 29.  
 Harris, A. L. (Tex.), 67.  
 Harris, D. N., 63.  
 Harris, E. D., 54, 55.  
 Harris, F. C., 28.  
 Harris, F. S., 68, 69.  
 Harris, R. T., 76.  
 Harris, T. H., 31.  
 Harris, W. H., 72.  
 Harrison, A. K., 36.  
 Harrison, B. M., 26.  
 Harrison, H. T., 35.  
 Harrison, O. L., 19.  
 Harrison, T. P., 52.  
 Harrison, W. H., 44.  
 Hart, E. B., 75, 76.  
 Hart, E. R., 17.  
 Hart, J. H., 72.  
 Hart, J. N., 34.  
 Hart, J. W., 19.  
 Hart, L. C., 19.  
 Hart, L. J., 66, 67.  
 Hart, R. A., 7, 69.  
 Hart, W. R., 36.  
 Hartenbower, A. C., 57.  
 Harter, G. A., 17.  
 Hartman, L. W., 46.  
 Hartsock, R. E., 57.  
 Hartung, J. R., 48.  
 Hartwell, B. L., 62, 63.  
 Hartzell, F. Z., 50.  
 Hasbrouck, P. B., 36.  
 Haseman, C., 46.  
 Haseman, L., 43.  
 Haskell, C. G., 7.  
 Haskell, E. J., 34.  
 Haskell, S. B., 36.  
 Haskins, H. D., 37.  
 Haslam, T. P., 29.  
 Hastings, E. G., 75, 76.  
 Haswell, J. R., 7.  
 Hatch, F. L., 22.  
 Hatch, K. L., 75, 76.  
 Hathaway, J. S., 31.  
 Hauch, E. F., 48.  
 Haugan, H. A., 22.  
 Hause, E. B., 40.  
 Hausknecht, V. B., 49.  
 Haviland, L. P., 50.  
 Havner, H. H., 61.  
 Hawes, A. F., 69, 70.  
 Hawk, P. B., 23.  
 Hawkins, R. J., 19.  
 Hawley, C. L., 58.  
 Hay, M. E., 72.  
 Hayden, A., 26.  
 Hayden, C. C., 23, 24.  
 Hayden, H. E., 67.  
 Hayes, F. M., 14.  
 Hayes, G. H., 39.  
 Hayes, H. K., 16.  
 Hayes, M. E., 16.  
 Hayes, O. F., 58.  
 Hayhurst, P., 12, 13.  
 Hays, Mrs. S. H., 21.  
 Hayward, H., 17.  
 Haywood, W. G., 53.  
 Hazel, J. H., 20.  
 Hadden, W. P., 15.  
 Headlee, T. J., 28, 29.  
 Healy, D. J., 30, 31.  
 Hean, C. S., 75, 76.  
 Heard, C. H., 22.  
 Hearn, W. E., 53.  
 Hearst, Mrs. P. A., 13.  
 Hebard, G. R., 77.  
 Hechler, W. R., 26.  
 Heck, R. C. H., 48.  
 Heck, W. C., 67.  
 Hedges, C. C., 51, 52.  
 Hedges, M., 45.  
 Hedrick, U. P., 50.  
 Hedrick, W. O., 37.  
 Hegnauer, L., 23.  
 Heideman, C. W., jr., 6, 11.  
 Heideman, W. H., 22.  
 Helder, G. K., 29.  
 Heldring, J. J. L., 73.  
 Heller, A. A., 46.  
 Hellman, I. W., 13.  
 Helme, N., 63.  
 Helyar, J. P., 69.  
 Hemmenway, C. R., 20.  
 Hemphill, R. G., 7.  
 Henderson, C. B., 46.  
 Henderson, C. M., 67.  
 Henderson, J. J., 32.  
 Henderson, O. H., 27.  
 Henderson, V. H., 13.  
 Henderson, W., 20.  
 Henderson, W. F., 70.  
 Hendren, L. L., 19.  
 Hendrick, Mrs. M., 38.  
 Hendricks, G. B., 68.  
 Hendrix, W. J., 43.  
 Henke, F. C., 75.  
 Henley, W. W., 12.  
 Hennessy, P. J., 72.  
 Henry, D. H., 63.  
 Henry, E. S., 16.  
 Henry, W., 6.  
 Henry, W. A., 75, 76.  
 Henry, W. W. M., 17.  
 Hensel, H., 38.  
 Hepburn, N. W., 23, 24.  
 Hepburn, W. M., 24.  
 Hepler, J. R., 75, 76.  
 Hepner, F. E., 77.  
 Herbert, J. C., 41.  
 Herbert, J. W., jr., 48.  
 Herbert, R. O., 12.  
 Hergert, A. M., 32.  
 Herms, W. B., 13, 14.  
 Heren, S. T., 54.  
 Herrick, G. W., 51, 52.  
 Herrick, R. S., 15.  
 Herrington, J. A., 67.  
 Herschel, W. H., 34.  
 Herse, B., 59.  
 Hershey, H. F., 61.  
 Hertwig, R., 15.

- Hess, A. M., 44.  
 Hess, W. E., 7, 62.  
 Hetzel, R. D., 59.  
 Hewitt, A. H., 13.  
 Hewitt, C. E., 47.  
 Hewitt, J. L., 12, 13.  
 Heyl, F. W., 77.  
 Hibbard, B. H., 26.  
 Hibbard, P. L., 14.  
 Hibbard, R. P., 38.  
 Hibshman, E. K., 61.  
 Hicks, C. S., 36.  
 Hidinger, L. L., 7.  
 Hiester, G., 60.  
 Higbie, E. C., 40.  
 Higgins, J. C., 17.  
 Higgins, J. E., 6, 21.  
 Hilgard, E. W., 13, 14.  
 Hill, A. R., 8, 42, 44.  
 Hill, C. O., 66.  
 Hill, D. H., 8, 52.  
 Hill, G., 31.  
 Hill, G. R., jr., 51.  
 Hill, H., 53.  
 Hill, H. A., 33.  
 Hill, H. H., 71.  
 Hill, H. W. (Nev.), 46.  
 Hill, H. W. (Vt.), 69.  
 HILL, J. A., 77.  
 Hill, J. B., 61.  
 Hill, W. F., 60.  
 Hills, J. L., 8, 69, 70.  
 Hilyer, J. V., 19.  
 Himes, J. S., 44.  
 Himes, R. L., 32.  
 Hinds, G. H., 57.  
 Hinds, W. E., 9, 10.  
 Hine, G. S., 29.  
 Hine, J. S., 56.  
 Hingston, N. E., 44.  
 Hinman, C. H., 15.  
 Hirst, C. T., 69.  
 Hiscock, F. H., 50.  
 Hitch, H. J., 36.  
 Hitchcock, A. E., 64.  
 Hitchcock, L. W., 47.  
 Hitchings, E. F., 34.  
 Hite, B. H., 74.  
 Hoagland, R., 39, 40.  
 Hobdy, J. B., 9, 10.  
 Hobbs, C. M., 24.  
 Hobbs, H. V., 29.  
 Hoblit, M. L., 49.  
 Hodge, E. D., 64.  
 Hodges, C. B., 32.  
 Hodges, J. T., 68.  
 Hodges, R. E., 75, 76.  
 Hodges, T. E., 74.  
 Hodgkins, M., 47.  
 Hodgkiss, H. E., 50.  
 Hodgson, E. R., 71.  
 Hodson, E. A., 9, 10.  
 Hoefler, E. G., 77.  
 Hoff, E. J., 7.  
 Hoeffcker, F. H., 17.  
 Hoffer, G. N., 24.  
 Hoffman, A. H., 26.  
 Hoffman, J. W., 68.  
 Hoffman, M. H., 26.  
 Hoffmann, C., 75, 76.  
 Hogan, J. R., 58.  
 Hogenson, J. C., 63.  
 Hokaasen, O. M., 26.  
 Holaday, H. A., 22.  
 Holbrook, P. K., 25.  
 Holcomb, G. N., 36.  
 Holdaway, C. W., 70.  
 Holden, P. G., 27.  
 Holden, R. J., 70.  
 Holdridge, K., 27.  
 Holland, E. B., 37.  
 Hollar, J. H., 28.  
 Holler, Z. N., 57.  
 Holley, T., 68.  
 Hollingshead, R. S., 19.  
 Hollinshead, L., 40.  
 Hollister, G. H., 54.  
 Hollister, S. P., 16.  
 Holloway, G. A., 20.  
 Holloway, W. M., 18.  
 Holmes, A. G., 63.  
 Holmes, F. S., 70.  
 Holmes, H. C., 67.  
 Holmes, W., 57.  
 Holmes, W. R., 38.  
 Holroyd, I. E., 28.  
 Holsinger, C. V., 29.  
 Holt, C. L., 38.  
 Holt, S. V., 23.  
 Holt, V. S., 6, 21.  
 Holton, E. L., 28, 29.  
 Holtz, H. F., 73.  
 Hood, G. W., 38.  
 Hook, J. N., 64.  
 Hooker, C. W., 7, 62.  
 Hooker, W. A., 6.  
 Hookland, S. S., 49.  
 Hooper, A., 35.  
 Hooper, J. J., 30.  
 Hoopingarner, R. G., 38.  
 Hoover, J. M., 54.  
 Hope, L., 75.  
 Hopkins, C. G., 23.  
 Hopphan, K. E., 38.  
 Hopson, G. A., 16.  
 Hopt, E., 45, 46.  
 Horlick, A. J., 75.  
 Horne, W. T., 13, 14.  
 Horner, J. B., 58.  
 Hoskins, E. E., 24.  
 Hoskins, H. P., 40.  
 Hoskins, J. D., 66.  
 Hosmer, F. A., 36.  
 Hosmer, R. S., 20.  
 Hossinger, J. H., 17.  
 Hotchkiss, W. S., 67.  
 Hottes, C. F., 23.  
 Houghton, C. O., 17.  
 House, E. B., 15.  
 House, W. L., 28.  
 Householder, F. C., 54.  
 Houser, J. S., 56.  
 Houser, T., 56.  
 Houseworth, E. E., 68.  
 Houston, F., 59.  
 Houston, H., 63.  
 Houston, S. T., 35.  
 Hovland, H. B., 39.  
 Howard, G. F., 39.  
 Howard, J. T., 37.  
 Howard, R. F., 45, 46.  
 Howard, S. F., 36.  
 Howard, W. H. A., 19.  
 Howard, W. L., 42, 43.  
 Howe, E. D., 36.  
 Howe, G. H., 50.  
 Howell, W. M., 9.  
 Hoyt, W. D., 48.  
 Hubert, J., 35.  
 Hudnall, R. H., 70.  
 Hudson, B. M., 19.  
 Hudson, R. S., 38.  
 Hudson, T. G., 19, 20.  
 Huff, L. B., 60.  
 Hughes, D. M., 19.  
 Hughes, E. T., 63.  
 Hughes, H. D., 26, 27.  
 Hughes, H. W., 15.  
 Hughes, J. S., 28.  
 Hughes, T. W., 32.  
 Hulee, R. S., 23, 24.  
 Humbert, E. P., 49.  
 Hume, A. N., 65.  
 Hume, E. E., 31.  
 Humfeld, N. B., 29.  
 Hummel, W. G., 14.  
 Humphrey, G. C., 75, 76.  
 Humphrey, H. B., 73.  
 Humphrey, J. A., 29.  
 Humphrey, J. G., 57.  
 Hungerford, De F., 39, 40.  
 Hunn, C. E., 51.  
 Hunn, C. J., 6, 21.  
 Hunn, J., 17.  
 Hunt, A., 37.  
 Hunt, B. P., 10.  
 Hunt, L. W., 73.  
 Hunt, N. R., 73.  
 Hunt, T. F. (Cal.), 14.  
 Hunt, T. F. (Pa.), 8, 60, 61.  
 Hunt, Mrs. T. M. R., 68.  
 Hunter, F. M., 45.  
 Hunter, J. E., 63.  
 Hunter, O. W., 29.  
 Hunter, W. K., 66.  
 Hunting, H., 27.  
 Huntington, C. C., 56.  
 Huntington, E. A., 68.  
 Huntsman, S., 69.  
 Hunziker, O. F., 24, 25.  
 Hurd, W. D., 8, 36.  
 Hurd, L. M., 51.  
 Huse, H. K., 28.  
 Huston, R. C., 37.  
 Hutcheson, T. B., 70, 71.  
 Hutchings, A. L., 39.  
 Hutchins, A. L., 72.  
 Hutchinson, W. L., 41.  
 Hutchison, C. B., 42, 43.  
 Hutchison, G. G., 60.  
 Hutchison, J. R., 77.

- Hutt, W. N., 53.  
 Hutton, J., 15.  
 Hutton, J. B., 17.  
 Hutton, J. G., 65.  
 Hyatt, E., 13.  
 Hyde, E., 72.  
 Hyde, H., 65.  
 Hyde, J. A., 68.  
 Hyslop, G. R., 59.  
  
 Ickelheimer, H. R., 50.  
 Iddings, E. J., 22.  
 Iles, I. V., 29.  
 Ilg, C., 51.  
 Imbach, T. F., 74.  
 Ince, J. W., 54, 55.  
 Ingalls, G. R., 40.  
 Ingham, N. D., 14.  
 Ingham, W. S., 76.  
 Ingraham, E. S., 56.  
 Ingram, R. C., 14.  
 Irvine, B. F., 53.  
 Irvine, W. H., 65.  
 Irwin, G. W., 64.  
 Isaacs, C. A., 72.  
 \* Isaacs, R. L., 68.  
  
 Jackley, J. G., 29.  
 Jackson, C. F., 47.  
 Jackson, E. P., 59.  
 Jackson, H. L., 69.  
 Jackson, H. S., 59.  
 Jackson, H. W., 61.  
 Jackson, J. Q., 53.  
 Jackson, L. F., 73.  
 Jackson, M., 20.  
 Jackson, S. C., 42.  
 Jackson, W. P., 35.  
 Jacob, M., 66.  
 Jacobson, C. A., 46.  
 Jacobson, S. L., 54.  
 Jacoby, F. S., 56.  
 Jaffa, M. E., 13, 14.  
 Jagger, M. H., 16.  
 Jahr, M. E., 23.  
 James, A. C., 71.  
 James, C., 47.  
 James, E. J., 23.  
 Jamison, G. A., 24.  
 Jamison, G. H., 57.  
 Jardine, W. M., 28, 29.  
 Jarnagin, M. P., 19.  
 Jarrell, T. D., 35.  
 Jarvis, C. D., 16.  
 Jarvis, C. M., 16.  
 Jarvis, J. D., 24, 25.  
 Jason, W. C., 17.  
 Jayne, S. O., 7.  
 Jefferson, E., 56.  
 Jeffery, J. A., 37, 38.  
 Jeffords, T. M., 57.  
 Jeffrey, J. S., 52, 53.  
 Jeffries, J. H., 53.  
 Jenkins, A. E., 51.  
 Jenkins, E. E., 19.  
 Jenkins, E. H., 16.  
 Jenks, A. R., 36.  
  
 Jenness, J. R., 28.  
 Jennings, J. M., 33.  
 Jennison, H. M., 44.  
 Jensen, C. N., 68, 69.  
 Jensen, G. C., 68.  
 Jensen, W. A., 59.  
 Jenson, J. W., 68.  
 Jerdan, S. S., 10.  
 Jett, W. H., 72.  
 Jewett, A. C., 34.  
 Jewett, H. H., 30, 31  
 Jinks, J. H., 72.  
 Job, H. K., 16.  
 Jobbins, D. M., 49.  
 Jobson, H. H., 67.  
 Jodidi, S. L., 27.  
 Johannsen, O. A., 34.  
 Johnson, A. R., 48.  
 Johnson, C. L., 58.  
 Johnson, E. (Fla.), 19.  
 Johnson, E. (Kans.), 28.  
 Johnson, F. C., 19.  
 Johnson, F. E., 14.  
 Johnson, G. G., 64.  
 Johnson, H. C., 75, 76.  
 Johnson, H. W., 13.  
 Johnson, J., 75, 76.  
 Johnson, J. R., 58.  
 Johnson, L., 44.  
 Johnson, L. A., 72.  
 Johnson, L. E., 70, 71.  
 Johnson, L. R., 11.  
 Johnson, M. F., 38.  
 Johnson, O. M., 56.  
 Johnson, O. R., 43.  
 Johnson, R. F., 68.  
 Johnson, S. A., 15.  
 Johnson, T. C., 71.  
 Johnson, T. S., 19.  
 Johnston, A. D., 39, 40.  
 Johnston, Mrs. C. E., 6.  
 Johnston, C. L., 10.  
 Johnston, E. P., 28.  
 Johnston, F. A., 71.  
 Johnston, J. R., 62.  
 Johnston, W. W., 57.  
 Johnstone, A., 63.  
 Johnstone, B. H., 63.  
 Jones, A., 11.  
 Jones, A. A., 57, 58.  
 Jones, A. C., 76.  
 Jones, A. J., 34.  
 Jones, C., 31.  
 Jones, C. E., 74.  
 Jones, C. H. (S. C.), 64.  
 Jones, C. H. (Vt.), 70.  
 Jones, C. L., 34.  
 Jones, D. C., 67.  
 Jones, E. B., 19.  
 Jones, E. R., 75, 76.  
 Jones, F., 34.  
 Jones, G., 12.  
 Jones, G. D., 75.  
 Jones, G. H., 58.  
 Jones, J. C., 46.  
 Jones, J. F., 61.  
 Jones, J. H., 36.  
  
 Jones, J. S., 22.  
 Jones, K. K., 62.  
 Jones, L. R., 75, 76.  
 Jones, N. A., 58.  
 Jones, O. B., 56.  
 Jones, O. L., 75, 76.  
 Jones, P. W. L., 31.  
 Jones, R. C., 44.  
 Jones, R. G., 26.  
 Jones, R. K., 34.  
 Jones, S. B., 54.  
 Jones, T. H., 62.  
 Jones, T. M., 44.  
 Jones, V. R., 61.  
 Jones, W. J., jr., 25.  
 Jones, W. M., 26.  
 Jordan, A. E., 21.  
 Jordan, E. L., 32.  
 Jordan, H. B., 11.  
 Jordan, W. H., 8, 50.  
 Jorgensen, F. A., 24.  
 Judd, W. H., 72.  
 Judisch, G., 27.  
 Judkins, H. F., 47.  
 Julian, A. N., 36.  
 Jurjens, J. C., 76.  
  
 Kalkus, J. W., 73.  
 Kalmbach, J. E., 54.  
 Kammeyer, J. E., 28.  
 Kane, A., 29.  
 Karraker, P. E., 23.  
 Kastle, J. H., 30, 31.  
 Kately, F., 44.  
 Katz, S. H., 47.  
 Kaufman, F. J., 60.  
 Kaupp, B. F., 15.  
 Kay, M., 28.  
 Kean, J. C., 41.  
 Kear, R. W., 72.  
 Kearney, I. H., 53.  
 Kearney, M. M., 32.  
 Kedzie, F. S., 37.  
 Keene, E. S., 54.  
 Keene, J. R., 35.  
 Keene, L., 43.  
 Keffer, C. A., 66.  
 Keith, M. H., 57.  
 Keith, W. J., 60.  
 Keitt, T. E., 63.  
 Keitt, T. W., 64.  
 Keller, A. R., 21.  
 Kelley, A., 65.  
 Kelley, C. W., 54.  
 Kelley, F. J., 75, 76.  
 Kelley, W. P., 6, 21.  
 Kellogg, H. S., 26, 27.  
 Kellogg, L. L., 48.  
 Kellum, J. G., 18.  
 Kelly, C., 75.  
 Kelly, H. M., 30.  
 Kelly, J. B., 67.  
 Kelly, L., 6, 11.  
 Kelly, W. A., 7.  
 Kelsall, G. A., 38.  
 Kelsey, C. H., 71.  
 Kelton, F. C., 12.



- Kempner, D. W., 66, 67.  
 Kempster, H. L., 43  
 Kendall, A., 76.  
 Kendall, J. C., 47.  
 Kennard, F. L., 22.  
 Kennedy, C., 39, 40.  
 Kennedy, C. V., 55.  
 Kennedy, M. B., 46.  
 Kennedy, P. B., 46.  
 Kennedy, W. J., 26, 27.  
 Kenney, F. C., 36, 37.  
 Kenswill, E. F., 19.  
 Kent, F. L., 58, 59.  
 Kent, F. R., 35.  
 Kent, H. L., 29.  
 Kenyon, A. M., 24.  
 Kephart, C. F., 47.  
 Keppel, H. G., 18.  
 Kern, C. A., 69.  
 Kern, F. D., 25.  
 Kerr, A. P., 33.  
 Kerr, C., 69.  
 Kerr, E. W., 32, 33.  
 Kerr, G. G., 17.  
 Kerr, W., 71.  
 Kerr, W. J., 58.  
 Kershaw, J. C., 21.  
 Ketcham, V. A., 34.  
 Kettle, S. L., 15.  
 Keyser, A., 15.  
 Kiah, T. H., 36.  
 Kidd, J. W., 67.  
 Kidd, W. E., 25.  
 Kidder, A. F., 32.  
 Kidder, F. T., 69.  
 Kidder, I. A., 59.  
 Kiesselbach, T. A., 46.  
 Kildee, H. H., 26, 27.  
 Kilgore, B. W., 53.  
 Kimball, C. D., 62.  
 Kimbrough, J. M., 20.  
 King, A. C., 51.  
 King, C. M., 27.  
 King, E. S., 37.  
 King, F. G., 25.  
 King, H. E., 11.  
 King, H. H., 28.  
 King, M. L., 27.  
 King, T. B., 18.  
 Kinghorn, P., 72.  
 Kingman, E. D., 38.  
 Kingman, H. E., 15.  
 Kingsley, D. P., 69.  
 Kinkadee, E. S., 30.  
 Kinley, D., 23.  
 Kinman, C. F., 7, 62.  
 Kinney, E., 30, 31.  
 Kinney, H. B., 27.  
 Kinzer, J. C., 22.  
 Kipp, H. A., 7.  
 Kirkpatrick, B. F., 70.  
 Kirkpatrick, K. A., 39.  
 Kirkpatrick, J. B., 48.  
 Kirkpatrick, W. F., 41.  
 Kirshman, J. E., 54.  
 Kleeberger, F. L., 12.  
 Kleinheinz, F., 75, 76.  
 Kline, L. D., 70.  
 Klugh, W. W., 63.  
 Klutz, W. L., 53.  
 Knabe, W. A., 66.  
 Knapp, H., 25, 26, 27.  
 Kneale, R. D., 44.  
 Knepper, M. E., 59.  
 Knight, C. S., 46.  
 Knight, E. H., 77.  
 Knight, F. C., 28.  
 Knight, G. W., 55.  
 Knight, H. G., 77.  
 Knight, H. L., 6.  
 Knoll, F. P., 61.  
 Knorr, F., 46.  
 Knott, W. V., 18.  
 Knowles, N. S., 27.  
 Knudsen, K. H., 74.  
 Knudson, L., 51, 52.  
 Kochenderfer, C. C., 61.  
 Koebele, A., 21.  
 Kohler, A. R., 39, 40.  
 Kolb, R. F., 9.  
 Kollock, H. G. M., 17.  
 Kolshorn, H., 57.  
 Kone, E. R., 66, 67.  
 Koonce, E. M., 52.  
 Koonce, L. F., 53.  
 Kortright, F. L., 74.  
 Kostalek, J., 22.  
 Krak, J. H. B., 74.  
 Krall, J., jr., 7.  
 Kramer, W. H., 56.  
 Kraus, E. J., 59.  
 Krauss, F. G., 21.  
 Kreager, F. O., 73.  
 Krentel, A. P., 38.  
 Krum, W. G., 51.  
 Krusekopf, H. H., 43.  
 Kubin, E. F., 28, 29.  
 Kumerth, W., 26.  
 Kunst, F. B., 74.  
 Kuny, E. C., 59.  
 Kunze, E. J., 37.  
 Kyle, C., 69.  
 Kyle, E. J., 66.  
 Kyle, G. J., 49.  
 Kyle, H. G., 65.  
 Kyle, J. A., 66, 67.  
 Laate, G., 40.  
 La Bach, J. O., 30, 31.  
 La Crosse, J. F., 72.  
 Lacy, E. A. L., 70.  
 Ladd, E. F., 54, 55.  
 Lafferty, W. T., 30.  
 Laidley, G. S., 73, 74.  
 Lain, G. E., 49.  
 Lamar, W. L., jr., 9.  
 Lamb, C. C., 59.  
 Lambert, D. J., 62.  
 Lambert, F. A., 56.  
 Lamoureux, A. J., 51.  
 Lamson, G. H., jr., 16.  
 Lamson, J. B., 39.  
 Landacre, F. L., 56.  
 Landon, Mrs. L. E., 38.  
 Lane, C. H., 6, 7.  
 Lane, D. J., 39, 40.  
 Lane, G., 44.  
 Lang, LeR., 23, 24.  
 Langlois, E. C., 73.  
 Langridge, F. M., 15.  
 Langton, W. S., 68.  
 Langworthy, C. F., 6, 7.  
 Lansing, R. C., 39, 40.  
 Lanxon, W. R., 55.  
 Laper, C. G., 57.  
 Larkins, L. S., 33.  
 Larrabee, E. A., 37.  
 Larsen, C. (S. Dak.), 65.  
 Larsen, C. (Utah), 68.  
 Larsen, L. D., 21.  
 Larson, C. W., 60, 61.  
 Larson, G. L., 22.  
 Larson, R. A., 65.  
 Lassalle, L. J., 61.  
 Lassetter, W. C., 12, 13.  
 Latané, R. P., 53.  
 Laton, T. J., 47.  
 Latta, W. C., 8, 24.  
 Lauck, W. H., 7.  
 Laude, H. H., 29.  
 Lauman, G. N., 51.  
 Laver, M. R., 56.  
 Lawrason, S. McC., 31.  
 Lawrence, E. A., 64.  
 Lawrence, J. W., 15.  
 Lawrence, W. E., 59.  
 Laws, A. G., 42.  
 Laws, L. P., 17.  
 Lawson, J. L., 31.  
 Laycock, W. E., 38.  
 Layman, J. D., 46.  
 Lazenby, W. R., 55.  
 Lea, E. J., 13.  
 Lea, P., 17.  
 Leake, C., 41.  
 Leavell, R. H., 67.  
 Leavitt, R., 25.  
 Lebold, C. H., 57.  
 Le Clair, C. A., 43.  
 Lee, B., 31.  
 Lee, C. B., 45, 46.  
 Lee, C. E., 75, 76.  
 Lee, F. M., 21.  
 Lee, J. G., 32.  
 Lee, R. E., 63.  
 Lee, W. H., 16.  
 Leech, E. V., 59.  
 Lefevre, G., 42.  
 Le Fevre, J., 47.  
 Lehman, B. H., 22.  
 Lehmann, E. W., 67.  
 Leidigh, A. H., 28, 29.  
 Leighton, V. L., 62.  
 Leighton, W. L., 34.  
 Leighty, W. R., 24.  
 Leith, B. D., 75, 76.  
 Leland, E. W., 51, 52.  
 Lemon, J. G., 20.  
 Leonard, A., 28.  
 Leonard, W. J., 74.  
 Leupp, W. H., 48.

- Levin, W., 67.  
 Levister, B., 64.  
 Levy, A., 41.  
 Levy, E. C., 64.  
 Lewers, K., 46.  
 Lewers, R., 46.  
 Lewis, A. G., 50.  
 Lewis, C. E., 34.  
 Lewis, C. I., 58, 59.  
 Lewis, D. E., 29.  
 Lewis, E. M., 36.  
 Lewis, H. G., 43.  
 Lewis, H. R., 48, 49.  
 Lewis, J. G., 72.  
 Lewis, J. T., 71.  
 Lewis, J. V., 48.  
 Lewis, L. L. (Okla.), 57, 58.  
 Lewis, L. L. (Va.), 71.  
 Lewis, L. M., 59.  
 Lewis, T. K., 56.  
 Lewis, W. C., 64.  
 Lichtenthaler, R. A., 63.  
 Liebers, O. H., 45.  
 Lill, J. G., 29.  
 Lincoln, J. R., 26.  
 Lind, J., 39.  
 Lindsay, J. I., 69.  
 Lindsey, A. E., 28.  
 Lindsey, J. B., 36, 37.  
 Linfield, F. B., 44, 45.  
 Link, G. K. K., 45, 46.  
 Linklater, W. A., 57, 58.  
 Lintner, W. A., 27.  
 Linton, J. O., 38.  
 Lipman, C. B., 13, 14.  
 Lipman, J. G., 48, 49.  
 Lipp, C. C., 39, 40.  
 Lippincott, W. A., 28, 29.  
 Lipscomb, G. F., 63.  
 Little, C. N., 22.  
 Little, E. F., 47.  
 Littlejohn, A., 56.  
 Livermore, K. C., 51, 52.  
 Livingston, G., 56.  
 Lloyd, E. R., 41, 42.  
 Lloyd, E. R., jr., 64.  
 Lloyd, F. E., 9, 10.  
 Lloyd, J. T., 51.  
 Lloyd, J. W., 23, 24.  
 Lloyd, O. G., 75, 76.  
 Lloyd, W. A., 56.  
 Lloyd-Jones, O., 75, 76.  
 Loblein, E. L., jr., 48.  
 Lockerman, J. H., 35.  
 Lockhart, A., 70.  
 Lockhart, O. C., 56.  
 Lockwood, W. P. B., 36.  
 Lodge, W. L., 37.  
 Loftin, U. C., 18.  
 Logan, C. C., 23.  
 Logan, J. H., 48.  
 Logan, W., 10.  
 Logan, W. N., 41.  
 Logo, V. L., 60.  
 Lombard, P. M., 70.  
 Lommen, I. G., 26.  
 Long, D. D., 19.  
 Long, W. J., 44.  
 Longstreth, J. W., 7.  
 Longyear, B. O., 15.  
 Loomis, A., 75.  
 Loomis, H., 65.  
 Lord, H. B., 50.  
 Loree, L. F., 48.  
 Lory, C. A., 14, 15.  
 Losh, A. R., 29.  
 Lougher, T. H., 62.  
 Loughridge, J. E., 45.  
 Loughridge, R. H., 13, 14.  
 Love, H. H., 51, 52.  
 Lovejoy, S. C., 60.  
 Loveland, G. A., 46.  
 Lovett, A. L., 59.  
 Lovette, J. W., 74.  
 Low, S., 10.  
 Lowman, G. S., 28.  
 Lowman, W. R., 64.  
 Lowry, Mrs. M. M., 74.  
 Lowry, M. W., 60.  
 Lowry, W. H., 74.  
 Loy, S. K., 77.  
 Lozier, A., 48.  
 Ludlum, L. C., 67.  
 Lueder, C. A., 74.  
 Lumbrick, A., 23.  
 Lumsden, D., 47.  
 Lund, J., 28.  
 Lunn, A. G., 59.  
 Lustrat, J., 19.  
 Lutman, B. F., 69, 70.  
 Luttrell, E. G., 12.  
 Lyford, V. G., 45.  
 Lykes, H. P., 20.  
 Lyles, W. M., 31.  
 Lyman, E., 69.  
 Lyman, J. F., 56.  
 Lyman, R., 68.  
 Lyman, R. P., 37.  
 Lyman, W. T., 17.  
 Lyon, H. L., 21.  
 Lyon, T. L., 51, 52.  
 Lyon, W. S., 51.  
 Lyons, J. H., 31.  
 McAdams, E. E., 67.  
 McAdory, I. S., 9, 10.  
 McAfee, C. B., 43.  
 McArdle, H. W., 54.  
 McArthur, C. L., 22.  
 McArthur, J. R., 49.  
 McBride, I., 57.  
 McBride, R. E., 49.  
 McBride, R. V., 57.  
 McBryde, J. B., 70.  
 McBryde, J. M., 70.  
 McBurney, R., 57.  
 McCaffrey, M. E., 75.  
 McCain, M. J., 58.  
 McCall, A. G., 56.  
 McCall, M. A., 59.  
 McCall, T., 40.  
 McCallum, A. T., 53.  
 McCampbell, C. W., 28, 29.  
 McCampbell, E. F., 56.  
 McCann, S. D., 30.  
 McCarthy, C. F., 73.  
 McCarthy, J., 48.  
 McCarthy, T. J., 75, 76.  
 McCharles, C. H., 13, 14.  
 McChayne, G. M., 25.  
 McClelland, C. K., 6, 21.  
 McClelland, T. B., 7, 62.  
 McCleendon, S. E., 33.  
 McCleendon, W., 33.  
 McCloskey, A. G., 51.  
 McClung, H. L., 65.  
 McClure, L., 39, 40.  
 McClure, L. A., 46.  
 McCollum, E. V., 75, 76.  
 McComber, O., 40.  
 McConn, C. M., 22.  
 McConnell, W. R., 60.  
 McCool, M. M., 51, 52.  
 McCormick, E. B., 28.  
 McCormick, V. C., 60.  
 McCrary, M. L., 58.  
 McCreary, O., 50.  
 McCreary, P. L., 14.  
 McCrory, S. H., 7.  
 McCrosky, R. C., 72.  
 McCue, C. A., 17.  
 McCullough, J. G., 69.  
 McCully, B., 72.  
 McCune, E. C., 68.  
 McDaniel, E. I., 38.  
 McDaniel, J. S., 37.  
 McDonald, E. M., 23, 24.  
 McDonald, M. (Iowa), 27.  
 McDonald, M. (Minn.), 39, 40.  
 McDonald, M. (Okla.), 57.  
 McDonald, W. T., 73.  
 McDonnell, H. B., 35.  
 McDonough, J. F., 48.  
 McDowell, Mrs. C. R., 44.  
 McDowell, M. S., 60, 61.  
 McElfresh, G. E., 59.  
 McElroy, C. H., 57.  
 McElroy, T. E., 57, 58.  
 McEnerney, G. W., 13.  
 McFarland, J. W., 25.  
 McFarlin, J. W., 30, 31.  
 McFeely, E. A., 60.  
 McGalliard, W. V., 48.  
 McGarrath, S. W., 28.  
 McGeorge, W., 6, 21.  
 McGregor, P., 72.  
 McGriff, A., 11.  
 McGuire, A. J., 40.  
 McHatton, T. II., 19.  
 McHugh, J. K., 32.  
 McIlhenny, G. A., 41, 42.  
 McInerney, T. J., 51.  
 McIntire, C., 57.  
 McIntire, C. McC., 23.  
 McIntire, H. K., 52.  
 McIntire, W. H., 61.  
 McIntosh, D., 23.  
 McKay, A. B., 41.  
 McKay, G., 72.  
 McKee, R. H., 34.  
 McKeever, W. A., 28.

- McKell, J. E., 41.  
 McKelvie, S., 45.  
 McKenzie, A., 71.  
 McKenzie, F. A., 56.  
 McKenzie, H. B., 12.  
 McKeown, J. L., 57.  
 McKinley, J. W., 13.  
 McKnight, G. H., 56.  
 McKnight, H. L., 67.  
 McKone, F. E., 47.  
 McLane, P., 62.  
 McLaughlin, F. A., 36.  
 McLaughlin, W. W., 7, 69.  
 McLean, H. C., 48.  
 McLean, J. A., 36.  
 McLendon, C. A., 20.  
 McLeod, J. H., 67.  
 McLester, Mrs. W. C., 20.  
 McLouth, F. D., 59.  
 McLurkin, C. P., 64.  
 McMeans, A., 54, 55.  
 McMillan, S. A., 67.  
 McMillin, E., 50.  
 McMullan, A. J., 19.  
 McMurry, H. D., 41.  
 McNatt, H. E., 23.  
 McNeil, J. H., 56.  
 McNulty, J. B., 15.  
 McNutt, J. C., 52.  
 McOmie, A. M., 12.  
 McPheeters, W. H., 67.  
 McPherson, J. H. T., 19.  
 McPherson, W., 55.  
 McPheters, L. E., 34.  
 McQuarrie, C. K., 18.  
 McRae, E. M., 24.  
 McRae, J. P., 53.  
 McSwain, C. W., 63.  
 McVey, J. M., 17.  
 MacCaughy, V., 21.  
 MacDonald, G. B., 26, 27.  
 MacDonald, J. A., 69.  
 MacDonald, M. B., 60, 61.  
 Macdonald, S. L., 15.  
 MacDougal, F. H., 67.  
 Macfarlane, W., 69.  
 Machmer, W. L., 36.  
 Mack, H. D., 54.  
 Mack, J., 12.  
 Mack, J. T., 55.  
 Mack, M. A., 28.  
 Mack, W. B., 46.  
 MacKay, C. J., 26.  
 MacKenzie, A. St. C., 30.  
 Mackimmie, A. A., 36.  
 Macklin, J. F., 37.  
 Macklin, T. H., 27.  
 Maclean, E., 26.  
 MacLean, J. A., 22.  
 MacLean, J. M., 26.  
 Maclin, A. C., 44.  
 MacMurray, A., 26.  
 MacNider, G. M., 53.  
 Macon, E. N., 62.  
 Macpherson, H., 59.  
 Macpherson, Mrs. M. D., 59.  
 Madaus, H. H., 25.  
 Madison, E. W., 68.  
 Madsen, H. P., 69.  
 Madson, B. A., 14.  
 Magoon, C. H., 63.  
 Magruder, W. H., 41.  
 Mahin, E. G., 24.  
 Mahoney, R. E., 7.  
 Mairs, T. I., 60, 61.  
 Major, C., 24.  
 Major, D. R., 55.  
 Major, E. W., 13, 14.  
 Major, H. F., 43.  
 Malde, O. G., 76.  
 Mallon, G. W., 55.  
 Malone, R. E., 11.  
 Maltby, R. D., 18.  
 Manchester, H. G., 16.  
 Mann, A. R., 51, 52.  
 Mann, C. D., 63.  
 Mann, C. L., 52.  
 Manning, A., 69.  
 Manning, R. I., 63.  
 Manns, T. F., 56.  
 Mansell, R. E., 13, 14.  
 Manzur, Z. M., 69.  
 Marbut, C. F., 42, 43.  
 Marcellus, F. N., 26, 27.  
 Marelli, H., 48.  
 Marinoni, U., 33.  
 Mariotte-Davies, P., 24.  
 Markham, E. A., 22.  
 Marks, J. D., 32.  
 Marlatt, A. L., 75, 76.  
 Marquardt, C. E., 61.  
 Marr, R. A., 70.  
 Marsden, R. D., 7.  
 Marsh, H. E., 38.  
 Marshall, C. E., 37, 38.  
 Marshall, F. R., 56.  
 Marshall, G. W., 17.  
 Marshall, J. A., 69.  
 Marshall, J. D., 15.  
 Marsteller, R. P., 67.  
 Martin, A. D., 19.  
 Martin, A. E., 19.  
 Martin, E. B., 10.  
 Martin, G. C., 36.  
 Martin, G. L., 54, 55.  
 Martin, H. L., 9.  
 Martin, J. A., 42.  
 Martin, J. N., 26.  
 Martin, J. W., 75.  
 Martin, S. M., 63.  
 Martin, S. P., 11.  
 Martinett, Mrs. L. M., 33.  
 Marvin, W. T., 48.  
 Mason, C. E., 10.  
 Mason, C. J., 16.  
 Mason, H. D., 50.  
 Mason, T. W., 61.  
 Massey, A. B., 63.  
 Mastin, J. C., 31.  
 Matheson, K. J., 16.  
 Matheson, R., 51.  
 Mathews, H. B., 65.  
 Mathewson, T. G., 62.  
 Mathis, F. K., 57.  
 Matthews, C. W., 30.  
 Matthews, H., 40.  
 Matthews, W. C., 30, 31.  
 Mauldin, I. M., 63.  
 Maurer, O., 29.  
 Maxson, R. N., 30.  
 Maxwell, A. M., 41.  
 May, D. W., 7, 62.  
 May, V. B., 49.  
 Mayhew, S. J., 10.  
 Maynard, J., 65.  
 Maynard, L. A., 27.  
 Mayne, D. D., 39.  
 Mayne, L. B., 38.  
 Mayo, N. S., 70, 71.  
 Mayo, W. J., 39.  
 Meacham, F. T., 53.  
 Mead, E., 14.  
 Mead, J. A., 69.  
 Mebane, A. L., 54.  
 Medcraft, W. G., 12.  
 Mearns, E. E., 63.  
 Meek, E. B., 60, 61.  
 Meeker, A., 22.  
 Meguiar, E., 61.  
 Meighan, H. A., 46.  
 Meiklejohn, R., 56.  
 Melander, A. L., 72, 73.  
 Melcher, C. R., 30.  
 Meldrim, P. W., 20.  
 Melhus, I. E., 75, 76.  
 Mellick, C. A., 37.  
 Mellen, F. D., 41.  
 Melvin, M. E., 19.  
 Mengel, C. W., 7.  
 Menges, F., 60.  
 Menig, O., 73.  
 Mensching, J. E., 57.  
 Menville, R. L., 32.  
 Mercer, W. H., 55.  
 Merica, C. O., 76, 77.  
 Merick, L. S., 25.  
 Merrill, D. E., 49.  
 Merrill, L. A., 68, 69.  
 Merrill, L. H., 34.  
 Merrill, L. S., 34.  
 Merrill, N. F., 69.  
 Merrill, S. E., 49.  
 Merrow, H. L., 62.  
 Merryman, E. G., 35.  
 Merz, H., 77.  
 Messick, J. F., 9.  
 Messick, S. H., 17.  
 Metcalf, Z. P., 53.  
 Meyer, A. J., 43.  
 Meyer, G. H., 23.  
 Michaelides, H. I., 38.  
 Michie, J. N., 67.  
 Middlekauff, H., 77.  
 Middleton, A. R., 24.  
 Milam, A. B., 26.  
 Milan, E. B., 59.  
 Milbrath, D. G., 55.  
 Miles, E. F., 28.  
 Millar, C. E., 29.  
 Miller, A. McQ., 30.  
 Miller, A. M., 57.

- Miller, D. G., 7.  
 Miller, E. C. (Cal.), 14.  
 Miller, E. C. (Kans.), 28, 29.  
 Miller, E. R., 9.  
 Miller, E. S., 50.  
 Miller, E. T., 19.  
 Miller, F. H., 50.  
 Miller, G. E., 54.  
 Miller, J. H., 8, 29.  
 Miller, J. O., 49.  
 Miller, M. F., 42, 43.  
 Miller, P. C., 49.  
 Miller, P. E., 40.  
 Miller, R., 57.  
 Miller, R. F., 45.  
 Miller, Mrs. S. H., 42.  
 Miller, S. P., 65.  
 Miller, W. C., 59.  
 Milliken, F. B., 28, 29.  
 Mills, G. F., 36.  
 Mills, H. C., 25.  
 Mills, S. P., 34.  
 Mills, W. J., 49.  
 Milner, R. D., 7.  
 Milner, R. T., 66.  
 Miltimore, C., 57.  
 Milward, J. G., 75, 76.  
 Minard, A. E., 54.  
 Minear, S. A., 57.  
 Minkler, F. C., 48, 49.  
 Minns, E. R., 51, 52.  
 Minor, J. B., 53.  
 Miskimen, M., 56.  
 Mitcham, G. M., 9.  
 Mitchell, A., 67.  
 Mitchell, C. E., 74.  
 Mitchell, D. C., 39, 40.  
 Mitchell, Mrs. E. M., 74.  
 Mitchell, G., 27.  
 Mitchell, H. F., 58.  
 Mitchell, H. W., 60.  
 Mitchell, J. F., 14.  
 Mitchell, J. R., 38.  
 Mitchell, J. W., 67.  
 Mitchell, R. V., 61.  
 Mitchell, S. C., 71.  
 Mitchell, S. R., 49.  
 Mitchell, W. L., 9.  
 Mobley, H. S., 12.  
 Mobley, J. H., 20.  
 Moffitt, E. H., 21.  
 Moffitt, J. K., 13.  
 Mohn, E., 57.  
 Mokler, A. J., 76.  
 Mollison, A. E., 44.  
 Money, P. A., 62.  
 Monosmith, P. B., 41.  
 Monroe, C. F., 73.  
 Monteith, H. R., 16.  
 Montgomery, E. G., 51, 52.  
 Montgomery, L. M., 56.  
 Mooers, C. A., 66.  
 Moon, C., 74.  
 Moon, F. F., 36.  
 Moore, A. F., 22.  
 Moore, A. J., 41.  
 Moore, E. L., 65.  
 Moore, F. C., 47.  
 Moore, H. E., 22.  
 Moore, H. W., 19.  
 Moore, J. B., 68.  
 Moore, J. G., 75, 76.  
 Moore, J. S., 41.  
 Moore, K. T., 11.  
 Moore, L. H., 10.  
 Moore, M. D., 6.  
 Moore, P., 22.  
 Moore, R. A., 75, 76.  
 Moore, R. S., 32.  
 Moorhead, M. B., 39, 40.  
 Mooring, D. C., 57, 58.  
 Moran, T. F., 24.  
 More, R. P., 61.  
 Morehouse, A. D., 7.  
 Morel, J. F., 59.  
 Moreland, C. C., 33.  
 Moreland, R. W., 33.  
 Morell, F., 66.  
 Morgan, A. E., 7.  
 Morgan, H. A., 66.  
 Morgan, H. H., jr., 17.  
 Morgan, J. O., 66.  
 Morgan, L. E., 43.  
 Moriarty, G. F., 69.  
 Morley, W. S., 22.  
 Morphis, R. W., 53.  
 Morrell, L. L., 50.  
 Morrey, C. B., 55.  
 Morrill, A. W., 12.  
 Morris, E. L., 14.  
 Morris, H., 33.  
 Morris, H. E., 45.  
 Morris, H. H., 38.  
 Morris, J., 19.  
 Morris, M. A., 10.  
 Morris, O. M., 73.  
 Morris, R., 48.  
 Morris, R. T., 50.  
 Morris, S., 73.  
 Morris, T. D., 66.  
 Morris, W. F., 53.  
 Morrison, C. B., 16.  
 Morrison, F. B., 75, 76.  
 Morrison, M. M., 49.  
 Morrison, W. S., 63.  
 Morrow, H. E., 12.  
 Morse, B. C., 23.  
 Morse, E. W., 6.  
 Morse, F. W., 37.  
 Morse, J. L., 38.  
 Morse, W. C., 56.  
 Morse, W. J., 34.  
 Mortensen, M., 26, 27.  
 Mortland, I., 32.  
 Morton, C. A., 28.  
 Morton, G. E., 15.  
 Morton, J., 49.  
 Mosby, T. S., 44.  
 Moseley, J. H., 42.  
 Moseley, J. M., jr., 9.  
 Moseley, T. W., 45.  
 Mosher, A. G., 26.  
 Mosher, M. L., 27.  
 Mosier, J. G., 23.  
 Moss, J. M., 33.  
 Motin, F. E., 44.  
 Moton, R. R., 72.  
 Moulton, C. R., 43.  
 Mower, E. C., 69.  
 Mowry, J. L., 39, 40.  
 Muir, F., 21.  
 Muldrow, C., 64.  
 Mulford, W., 51.  
 Mulligan, C. A., 66.  
 Mulvania, M., 66.  
 Mumford, F. B., 8, 42, 43.  
 Mumford, H. W., 23, 24.  
 Muncie, F. W., 23.  
 Mundhenk, C. L., 26.  
 Murdock, E., 10.  
 Murphree, A. A., 18.  
 Murphy, D. D., 25.  
 Murphy, E. S., 74.  
 Murphy, H. S., 26.  
 Murphy, W. J., 11.  
 Murray, C., 26.  
 Murray, G. S., 44.  
 Murray, N. A., 54.  
 Musgrave, T. C., 41.  
 Musselman, H. H., 38.  
 Mustaine, W. W. H., 30.  
 Mustard, L. W., 17.  
 Mutchle, S., 29.  
 Myers, C. E., 61.  
 Myers, C. H., 51.  
 Myers, C. S., 64.  
 Myers, J. J., 37.  
 Myers, T. R., 65.  
 Myrick, F. H., 62.  
 Nabours, R. K., 28, 29.  
 Nagle, J. C., 66.  
 Nanney, L. C., 26.  
 Napier, J. McG., 63.  
 Napp, W. G., 33.  
 Naquin, W. P., 21.  
 Nash, E. M., 29.  
 Navarrete, A., 62.  
 Naylor, N. M., 27.  
 Neal, D. C., 74.  
 Neal, J. A., 38.  
 Neal, J. W., 6, 11.  
 Neal, R. W., 36.  
 Neale, A. S., 56.  
 Needham, J. G., 51.  
 Neel, L. R., 66.  
 Neely, R. C., 19, 20.  
 Neff, J. B., 13.  
 Nehrling, A. H., 23, 24.  
 Neidig, R. E., 27.  
 Neilson, J., 47, 48.  
 Nelson, A., 77.  
 Nelson, A. P., 75.  
 Nelson, B. F., 39.  
 Nelson, D. M., 43.  
 Nelson, J., 48.  
 Nelson, J. B., 45.  
 Nelson, M., 12, 13.  
 Nelson, M. A., 69.  
 Nelson, P., 6, 20.  
 Nelson, S. B., 72, 73.



- Nelson, T., 52.  
 Nelson, W. P., 67.  
 Nelson, W. S., 11.  
 Nesbit, A. F., 47.  
 Nesbitt, O., 45.  
 Ness, H. (Iowa), 26.  
 Ness, H. (Texas), 67.  
 Netherton, T. M., 15.  
 Newell, W., 67.  
 Newey, A., 69.  
 Newhall, H. W., 38.  
 Newins, H. S., 59.  
 Newman, C., 37.  
 Newman, C. C., 64.  
 Newman, C. L., 52.  
 Newman, C. M., 70.  
 Newman, J. T., 50.  
 Newman, P. J., 28.  
 Newsom, I. E., 15.  
 Newton, H. D., 16.  
 Newton, J. T., 19.  
 Newton, W. R., 48.  
 Nicholas, N., 66.  
 Nichols, C. B., 30.  
 Nicholson, J. F., 22.  
 Nicholson, J. W., 32.  
 Nickerson, W. J., 33.  
 Niederhausen, S. W., 61.  
 Niederman, G., 23.  
 Nielsen, H. T., 29.  
 Nissley, W. B., 61.  
 Niswonger, H. R., 30, 31.  
 Niven, L. A., 63.  
 Nix, N. C., 64.  
 Nixon, C., 51, 52.  
 Noble, A. B., 26.  
 Noble, E. C., 45.  
 Noble, M. C. S., 53.  
 Nock, N. W., 71.  
 Noel, G. D., 29.  
 Noel, H. L., 41.  
 Noell, R. J., 70.  
 Nolan, A. W., 74.  
 Noll, C. F., 60, 61.  
 Norgord, C. P., 75, 76.  
 Norman, A. J., 36.  
 Norris, R. S., 21.  
 North, H. B., 48.  
 Northcott, G. A., 73, 74.  
 Northrup, Z. L., 38.  
 Norton, G. I., 26.  
 Norton, J. B. S., 35.  
 Norton, J. H., 13, 14.  
 Norton, W. C., 53.  
 Norwood, F. J., 42.  
 Noyes, G. H., 30.  
 Nugent, C. E., 54.  
 Nutter, J. H., 35.  
 Nutter, J. W., 30, 31.  
 Nye, W. McE., 24.  
 Nystrom, A. B., 73.  
 Oak, J. M., 34.  
 O'Brien, J. W., 46.  
 O'Byrne, A. E., 12.  
 O'Byrne, F. M., 18.  
 Ockerblad, A. M., 38.  
 Ocock, C. A., 75, 76.  
 Odell, A. F., 32.  
 Ogden, E. L., 6.  
 Ogden, R. C., 10, 71.  
 Ogier, T. L., 67.  
 Oglebay, E. W., 73, 74.  
 O'Hanlon, W., 50.  
 O'Kane, W. C., 47.  
 Okey, C. W., 7.  
 Olcott, B. W., 58.  
 Olin, W. H., 22.  
 Olive, E. W., 65.  
 Oliver, J. D., 24.  
 Oliver, T. E., 23.  
 Olmsted, M. E., 60.  
 Olson, G. A., 73.  
 Olson, L. P., 40.  
 Olson, O. M., 39.  
 Olwell, J. D., 58.  
 O'Neal, E., 9, 10.  
 Oneil, Mrs. A. T., 31.  
 Oosterhuis, A. C., 75, 76.  
 Ormsbee, E. J., 69.  
 Orr, B. S., 28.  
 Orton, C. R., 25.  
 Orton, W. A., 7.  
 Orvis, E. L., 60.  
 Osborn, G. A., 48.  
 Osborn, H., 55.  
 Osborne, O. M., 22.  
 Osborne, T. B., 16.  
 Osler, H. S., 38.  
 Osmun, A. V., 36.  
 Ostrander, J. E., 36, 37.  
 Ostrum, C., 57.  
 Oswald, W. L., 39, 40.  
 Otis, A. H., 12.  
 Otis, D. H., 75, 76.  
 Oviatt, C. J., 77.  
 Owen, A. P., 48.  
 Owen, E. B., 53.  
 Owen, E. J., 48.  
 Owen, I. L., 48.  
 Owen, W. L., 32.  
 Ozement, B. H., 28.  
 Packard, W. E., 14.  
 Paddock, F. B., 67.  
 Paddock, W., 55.  
 Page, I. E., 58.  
 Page, R., 70.  
 Paige, E. O., 19.  
 Paige, J. B., 36, 37.  
 Paine, G. S., 46.  
 Palm, E., 38.  
 Palmer, C., 34.  
 Palmer, D. N., 64.  
 Palmer, E. S., 48.  
 Palmer, J. H., 11.  
 Palmer, L. S., 43.  
 Palmer, M. A., 15.  
 Palmer, W. R., 34.  
 Pammel, L. H., 26, 27.  
 Panter, C. R., 33.  
 Park, C. B., 52.  
 Park, J. B., 23.  
 Park, R. E., jr., 19.  
 Parker, B., 52.  
 Parker, C. E., 17.  
 Parker, J. R., 45.  
 Parker, J. T., 28.  
 Parker, P. B., 45.  
 Parker, T. B., 53.  
 Parmelee, C. W., 48.  
 Parr, S. W., 23.  
 Parrish, G. R., 71.  
 Parrish, J. C., 42.  
 Parrott, A. H., 54.  
 Parrott, J. R., 70.  
 Parrott, P. J., 50.  
 Parshall, R., 15.  
 Parsley, H. M., 34.  
 Parsons, A. C., 58.  
 Parsons, C. L., 47.  
 Parsons, M., 43.  
 Parsons, S. R., 36.  
 Parsons, T. S., 77.  
 Paschall, A. L., 67.  
 Patch, E. M., 34.  
 Pate, W. F., 53.  
 Paterson, A. G., 73.  
 Paterson, T. G., 28, 29.  
 Patrick, B. S., 9.  
 Patrick, I. L., 64.  
 Pattee, F. L., 60.  
 Pattee, G. K., 60.  
 Patten, A. J., 38.  
 Patten, D. W., 16.  
 Pattengill, E. A., 26.  
 Patterson, H. F., 44.  
 Patterson, H. J., 35.  
 Patterson, J. K., 30.  
 Patterson, L. L., 41.  
 Patterson, R. S., 48.  
 Patterson, S. G., 22.  
 Patterson, W. H., 60.  
 Patton, C. A., 57.  
 Patton, E. H., 42.  
 Paxton, E. E., 21.  
 Payne, W. O., 19.  
 Paynter, E. R., 17.  
 Paynter, W. C., 43.  
 Payson, E. R., 48.  
 Payson, G. H., 48.  
 Peabody, F. G., 71.  
 Peabody, G. F., 10, 71.  
 Peace, W. G., 52.  
 Peairs, L. M., 28, 29.  
 Pearce, D. L., 40.  
 Pearl, R., 34.  
 Pearson, C., 14.  
 Pearson, Mrs. D. E., 20.  
 Pearson, H. A., 20.  
 Pearson, R. A., 50.  
 Pearson, W. H., 49.  
 Pearson, W. W., 58.  
 Pease, T. C., 61.  
 Peavy, G. W., 59.  
 Peck, C., 69, 70.  
 Peck, S. S., 21.  
 Peckham, H. H., 53.  
 Pedersen, N. A., 68.  
 Peek, E. L., 20.  
 Peeples, A., 35.

- Pegues, B. W., 32.  
 Pelton, W. C., 17.  
 Pember, F. R., 63.  
 Pence, M. L., 30.  
 Pence, M. O., 17.  
 Pennewill, S. S., 17.  
 Penney, R. D., 38.  
 Penny, C. L., 17.  
 Peppard, Mrs. L. L., 38.  
 Perin, S. W., 46.  
 Perkins, A. E. (Miss.), 42.  
 Perkins, A. E. (Ohio), 57.  
 Perkins, H. F., 69.  
 Perkins, R. C. L., 21.  
 Perley, G. A., 47.  
 Perry, F. M., 12.  
 Person, F. G., 15.  
 Peteet, W., 66, 67.  
 Peter, A. M., 30, 31.  
 Peters, C. A., 36.  
 Peterson, E. G., 68.  
 Peterson, F. L., 7, 46.  
 Peterson, J. M., 68.  
 Peterson, N. F., 32.  
 Peterson, P. E., 69.  
 Peterson, P. P., 75, 76.  
 Peterson, W., 68.  
 Peterson, W. H., 75, 76.  
 Petrie, G., 9.  
 Petry, E. J., 24.  
 Pettee, C. H., 47.  
 Pettit, J. H., 23.  
 Pettit, R. H., 37, 38.  
 Pew, W. H., 26.  
 Peyton, P. B., 65.  
 Pfotenhauer, W., 21.  
 Phelps, Mrs. C. P., 49.  
 Phelps, R. L., 49.  
 Phenix, G. P., 72.  
 Phillips, A. G., 24, 25.  
 Phillips, H., 13, 14.  
 Phillips, J. V., 7.  
 Phillips, M. W., 41.  
 Phillips, T. D., 56.  
 Phillips, W. J., 25.  
 Pickel, J. M., 53.  
 Pickerill, H. M., 51.  
 Pickett, B. S., 47.  
 Pierce, H., 15.  
 Pierce, J. A., 64.  
 Pierce, W. M., 58.  
 Pierpont, A. J., 16.  
 Pierpont, J. H., 47.  
 Pierson, P. I., 61.  
 Pile, G. E., 18.  
 Pilkington, B., 59.  
 Pillsbury, J. P., 52, 53.  
 Pillsbury, R. W., 47.  
 Pinckney, E. H., 18.  
 Pinckney, R. M., 45.  
 Pincomb, H. M., 23.  
 Ping, E. K., 28.  
 Pinkett, D. J., 36.  
 Pinnell, W. R., 30, 31.  
 Pipal, F. J., 25.  
 Pittuck, B. C., 57.  
 Place, I. A., 50.  
 Placeway, L. A., 26.  
 Plumb, C. S., 55.  
 Plummer, J. K., 53.  
 Poats, T. G., 63.  
 Pohlers, G. F., 7.  
 Pollard, A. G., 36.  
 Pollock, C. M., 43.  
 Pollock, G. G., 45.  
 Polson, J. A., 37.  
 Pomerene, F. E., 55.  
 Pompey, R. S., 11.  
 Pond, G. G., 60.  
 Pond, R. S., 19.  
 Poole, R. I., 53.  
 Poole, R. R., 10.  
 Porcher, A. A., 63.  
 Porter, C., 57.  
 Porter, C. S., 30, 31.  
 Porter, C. W., 68.  
 Porter, H. E., 28.  
 Porter, J. T., 66.  
 Porter, S. H., 11.  
 Porter, W. M., 59.  
 Porter, W. R., 55.  
 Porterfield, W. P., 54.  
 Potter, A. A., 28.  
 Potter, E. L., 59.  
 Potter, P. D., 60.  
 Potter, W. R. R., 21.  
 Potts, A. R., 38.  
 Potts, A. T., 67.  
 Potts, R. C., 57, 58.  
 Potts, R. J., 67.  
 Pou, R. L., 41.  
 Powell, E. J., 19.  
 Powell, H. McL., 12.  
 Powell, J. H., 42.  
 Powell, J. S., 69.  
 Powell, P. P., 9.  
 Powell, R. W., 38.  
 Powers, D. T., 32.  
 Powers, G. D., 46.  
 Powers, G. M., 69.  
 Powers, M. R., 63, 64.  
 Powers, W. H., 65.  
 Powers, W. L., 59.  
 Pratt, C. D., 72.  
 Pratt, F. R., 48.  
 Pratt, G., 29.  
 Pratt, G. K., 31.  
 Pratt, W. F., 50.  
 Prentiss, R. W., 48.  
 Prescott, A. T., 31, 32.  
 Preston, A. W., 46.  
 Preston, C. H., 36.  
 Preston, J. B., 56.  
 Price, H. C., 55.  
 Price, H. J., 24.  
 Price, H. L., 70, 71.  
 Price, J. C. C., 9, 10.  
 Price, J. D., 20.  
 Price, R. B., 42, 43.  
 Price, R. R., 28.  
 Prichard, R. S., 61.  
 Pridmore, J. C., 66.  
 Prien, O. L., 77.  
 Prillerman, B., 74.  
 Prince, W. E., 34.  
 Pritchett, V. C., 53.  
 Privott, W. W., 36.  
 Proctor, R., 69.  
 Proulx, E. G., 25.  
 Pryor, J. W., 30.  
 Pugsley, C. W., 45, 46.  
 Pulley, E. P., 69.  
 Puryear, C., 66.  
 Putnam, C. S., 54.  
 Putnam, F. W., 47.  
 Putnam, M., 73.  
 Putney, F. S., 62.  
 Putt, E. B., 55.  
 Quaife, E. L., 36.  
 Quayle, H. J., 13, 14.  
 Quayle, W. L., 69.  
 Quereau, F. C., 33.  
 Quesenberry, G. R., 49.  
 Quigley, J. E., 60.  
 Quintero, A., 62.  
 Raburn, G. E., 29.  
 Rae, R. M., 27.  
 Ragan, W. H., 52.  
 Raggio, A. P., 34.  
 Rahn, O., 37, 38.  
 Rail, E., 45, 46.  
 Ralston, W. E., 72.  
 Ramsey, J. B., 11.  
 Ramsey, J. R., 42.  
 Ramsower, H. C., 55.  
 Ranck, E. M., 41.  
 Randlett, G. W., 54.  
 Rane, F. W., 36.  
 Ranger, W. E., 62.  
 Rankin, C. A., 26.  
 Rankin, F. H., 8, 23.  
 Rankin, F. J., 15.  
 Rankin, J. O., 6.  
 Ransom, J. H., 24.  
 Rasche, W. H., 70.  
 Rasmussen, F., 47.  
 Rast, L. E., 19.  
 Rather, J. B., 67.  
 Rausch, M. F., 15.  
 Raven, W. F., 38.  
 Ravitch, M., 29.  
 Rawl, B. H., 63.  
 Ray, B. J., 53.  
 Ray, P. O., 60.  
 Raymond, W. R., 26.  
 Read, A. C., 60.  
 Read, W. A., 32.  
 Reade, J. M., 19.  
 Readhimer, J. E., 23.  
 Reardon, J., 27.  
 Reddick, D., 51, 52.  
 Reddy, H., 55.  
 Redifer, A. E., 60.  
 Redlich, F., 67.  
 Redman, R. W., 34.  
 Reece, R. H., 38.  
 Reed, A. G., 32.  
 Reed, B. B., 27.  
 Reed, C. C., 36.

- Reed, C. O., 23.  
 Reed, E. E., 31.  
 Reed, G. M., 42, 43.  
 Reed, H. S., 70, 71.  
 Reed, J. C., 37.  
 Reed, L. J., 34.  
 Reed, M. L., 52.  
 Reed, O. E., 28, 30.  
 Reed, R. C., 17.  
 Reed, T. W., 19.  
 Reed, W. H., 77.  
 Reeder, G., 42, 43.  
 Rees, E. L., 30.  
 Rees, H. L., 59.  
 Rees, R. W., 59.  
 Reese, A. M., 74.  
 Regenstern, E., 30, 31.  
 Regt, A. C. de, 48.  
 Reiben, G., 59.  
 Reid, C. C., 12.  
 Reid, H. E., 46.  
 Reid, I. C., 12.  
 Reimer, F. A., 59.  
 Reinhardt, H., 64.  
 Reitz, W. W., 61.  
 Remick, B. L., 28.  
 Remington, R. E., 54, 55.  
 Renney, G. A., 51.  
 Ressler, E. D., 58.  
 Rettger, L. F., 16.  
 Reynolds, E. S., 66.  
 Reynolds, J. A., 28.  
 Reynolds, M. H., 39, 40.  
 Rhys, A., 43.  
 Rice, A., 28.  
 Rice, A. E., 39.  
 Rice, F. E., 51.  
 Rice, J. E., 51, 52.  
 Rice, M., 39, 40.  
 Rich, F. A., 69, 70.  
 Richards, J. G., jr., 63.  
 Richards, M. W., 25.  
 Richards, S. J., 58.  
 Richards, W. B., 54, 55.  
 Richardson, A. G. G., 56.  
 Richardson, C. S., 35.  
 Richardson, E. S., 32.  
 Richeson, W. L., 33.  
 Richmond, M., 73.  
 Rickards, B. R., 23, 24.  
 Rickman, J. D., 28.  
 Ricks, J. R., 41.  
 Ricks, R. H., 52.  
 Riddick, W. C., 52.  
 Ridgaway, C. B., 77.  
 Ridgely, H., 17.  
 Ridgill, J. McL., 62.  
 Ridgway, C. S., 9, 10.  
 Ridgway, J. W., 67.  
 Rietz, H. L., 23.  
 Riggs, E. J., 56.  
 Riggs, W. M., 8, 63.  
 Rigney, J. W., 49.  
 Riley, H. W., 51, 52.  
 Riley, W. A., 51, 52.  
 Rinaker, H. B., 23.  
 Rinehart, E. F., 56.  
 Rinkle, L. G., 43.  
 Ripley, G. E., 12.  
 Risley, A. M., 57.  
 Ritchey, M., 58.  
 Ritter, F. E., 61.  
 Ritzman, E. G., 7, 62.  
 Rivarde, L. R., 33.  
 Rives, J. H., 31.  
 Roadhouse, C. L., 14.  
 Robb, B. B., 51.  
 Robbins, W. W., 15.  
 Robert, S. A., 66.  
 Roberts, G., 30, 31.  
 Roberts, G. A., 52, 53.  
 Roberts, G. L., 24.  
 Roberts, H. F., 28, 29.  
 Roberts, I. P., 51.  
 Roberts, M. M., 26.  
 Roberts, O. S., 25.  
 Roberts, P. L., 24, 25.  
 Roberts, R., 69.  
 Roberts, R. M., 13.  
 Roberts, S. C., 73.  
 Robertson, G. H., 21.  
 Robertson, J. E., 38.  
 Robertson, R. D., 7.  
 Robinson, A. L., 15.  
 Robinson, C. E., 59.  
 Robinson, C. S., 38.  
 Robinson, D. E., 69.  
 Robinson, F. J., 72.  
 Robinson, M., 48.  
 Robinson, R. H., 59.  
 Robinson, R. K., 11.  
 Robinson, W. A., 38.  
 Robson, Mrs. G. A., 38.  
 Rock, J. F., 21.  
 Rockwell, W. L., 7.  
 Rocky, N. W., 57.  
 Rodeheaver, J. N., 65.  
 Rodell, E. N., 28.  
 Rodes, W., jr., 30, 31.  
 Rodgers, R. H., 59.  
 Rodman, T. C., 62.  
 Roe, H. B., 39, 40.  
 Roe, R. B., 16.  
 Rogers, B. R., 28.  
 Rogers, C. A., 51, 52.  
 Rogers, F. K., 72.  
 Rogers, J. A., 9.  
 Rogers, M. C., 16.  
 Rogers, S. S., 14.  
 Rolfe, C. W., 23.  
 Rolfs, P. H., 18.  
 Rollins, C. B., 42.  
 Rollins, W. C., 68.  
 Rood, E. D., 15.  
 Roosevelt, T., 10.  
 Rose, D. H., 28, 29.  
 Rose, F., 51.  
 Roseboom, B. B., jr., 38.  
 Rosecrants, F. H., 15.  
 Rosenkrans, D. B., 53.  
 Ross, B. B., 9, 10.  
 Ross, E. C., 67.  
 Ross, H. E., 51, 52.  
 Ross, L., 29.  
 Ross, S. I., 15.  
 Ross, W. G., 61.  
 Ross, W. H., 12.  
 Roston, J. M., 20.  
 Rouse, I., 50.  
 Roush, G. A., 74.  
 Rowan, L. L., 42.  
 Rowe, W. E., 30.  
 Rowell, C., 13.  
 Rowell, E. P., 44.  
 Rowell, J. L., 70.  
 Rowland, F., 59.  
 Rowsey, W. E., 58.  
 Roy, R. E., 44.  
 Rubert, L., 62.  
 Rudd, W. N., 66.  
 Rude, T. C., 57.  
 Rudnick, A. W., 29.  
 Rudy, A., 52.  
 Ruehe, H. A., 14.  
 Ruehle, G. L. A., 50.  
 Ruffner, R. H., 35.  
 Ruggles, A. G., 39, 40.  
 Rule, W., 65.  
 Rumsey, W. E., 74.  
 Runge, W. E., 15.  
 Runkle, E. W., 60.  
 Runyon, M. L., 11.  
 Ruprecht, R. W., 37.  
 Rusk, H. P., 23, 24.  
 Russ, A., 57.  
 Russell, A. R., 53.  
 Russell, F. L., 34.  
 Russell, G. E., 26.  
 Russell, H. C., 31.  
 Russell, H. L., 8, 75, 76.  
 Russell, S. M., 11.  
 Rust, E. W., 14.  
 Ruth, W. A., 24.  
 Ruth, W. E., 56.  
 Rutland, J. R., 9.  
 Rutledge, Mrs. C. N., 44.  
 Ruzek, C. V., 12, 13.  
 Ryder, E. H., 37.  
 Sachs, W. H., 23.  
 Sackett, H. W., 50.  
 Sackett, W. G., 15.  
 Sadler, S., 58.  
 Safo, V. I., 59.  
 Sage, A. B., 49.  
 Sahr, C. A., 6, 21.  
 St. Clair, P. F., 70.  
 St. Martin, F. L., 33.  
 Salyer, S. M., 19.  
 Sammis, J. L., 75, 76.  
 Sampson, D. L., 56.  
 Sampson, G. R., 59.  
 Samra, E. S., 34.  
 Sanborn, C. E., 57, 58.  
 Sanborn, E. D., 53.  
 Sanborn, F. E., 55.  
 Sanders, J. G., 75, 76.  
 Sanders, J. W., 31.  
 Sanders, J. Y., 31, 32.  
 Sanders, M. B., 57.  
 Sanders, S. T., 32.

- Sanderson, E. D., 8, 74.  
 Sanderson, T., 55.  
 Sanford, E. T., 65.  
 Sanford, F., 54.  
 Sanford, F. H., 37.  
 Sanford, S. V., 19.  
 Sargent, F. H., 40.  
 Sargent, L. W., 54, 55.  
 Sarvis, J. T., 65.  
 Sater, L. F., 55.  
 Satterfield, H. E., 52.  
 Saunders, W. D., 70.  
 Sauter, C. C., 35.  
 Savage, E. S., 51, 52.  
 Sawyer, A. R., 37.  
 Sawyer, C. E., 64.  
 Scammell, H. B., 40.  
 Schaefer, F. A., 21.  
 Schaeffer, A. A., 66.  
 Schaeffer, N. C., 60.  
 Schafer, E. G., 28, 29.  
 Schaffner, J. H., 56.  
 Schalk, A. F., 54, 55.  
 Schaub, I. O., 52.  
 Schell, H., 27.  
 Scherflus, B. F., 30, 31.  
 Schermerhorn, L. G., 44, 45.  
 Schiefelin, W. J., 10, 71.  
 Schlick, W. J., 7.  
 Schlundt, H., 42.  
 Schmelz, H. L., 71.  
 Schmidt, L. B., 26.  
 Schmitz, N., 35.  
 Schnabel, J., 18.  
 Schoene, W. J., 50.  
 Schoenleber, F. S., 28, 29.  
 Schoentgen, E. T., 25.  
 Schollander, E. G., 55.  
 Schootes, A. J., 44.  
 Schoppe, W. F., 34, 45.  
 Schrack, C. V., 22.  
 Schreiber, W. E., 57.  
 Schreiner, T. E., 29.  
 Schulte, J. I., 6.  
 Schultz, L., 57.  
 Schulz, C. G., 39.  
 Schurman, J. G., 50, 51.  
 Schwab, C. M., 60.  
 Schwartz, L. H., 75, 76.  
 Scoates, D., 41.  
 Scobey, F. C., 7.  
 Scoffin, L. B., 66.  
 Scothorn, R. A., 56.  
 Scott, A., 48.  
 Scott, A. C., 58.  
 Scott, A. L., 13.  
 Scott, C. A., 28, 29.  
 Scott, C. W., 47.  
 Scott, E. L., 32.  
 Scott, E. M. (Ohio), 56.  
 Scott, E. M. (Tex.), 68.  
 Scott, E. W., 68.  
 Scott, F. W., 23.  
 Scott, G. E., 56.  
 Scott, G. L. (Colo.), 15.  
 Scott, G. L. (Mich.), 38.  
 Scott, G. T., 72.  
 Scott, J. M., 18.  
 Scott, J. W., 28.  
 Scott, R. W., 53.  
 Scott, R. W., Jr., 53.  
 Scott, S. J., 72.  
 Scovell, M. A., 8, 30, 31.  
 Scoville, W. H., 72.  
 Scroggs, W. O., 32.  
 Scudder, H. D., 58, 59.  
 Scudder, M. T., 48.  
 Seabright, J. E., 63.  
 Seaman, G. E., 75.  
 Searle, J. P., 48.  
 Sears, F. C., 36, 37.  
 Sears, W. J., 55.  
 Searson, J. W., 28.  
 Sease, L. A., 63.  
 Seaton, R. A., 28.  
 Secrest, E., 56.  
 Sechrist, F. K., 62.  
 Seeley, W. L., 18.  
 Seely, D. A., 38.  
 Segall, J. B., 34.  
 Seibert, D., 35.  
 Selby, A. D., 56.  
 Selby, L. B., 49.  
 Seldomridge, H. G., 57.  
 Selen, E. B., 59.  
 Selvidge, R. W., 43.  
 Selvig, C. G., 40.  
 Sessions, H., 27.  
 Setchell, W. A., 13, 14.  
 Severance, G., 73.  
 Severin, H. C., 65.  
 Severin, H. H., 21.  
 Severson, B. O., 61.  
 Sewell, A. H., 50.  
 Sexton, J. S., 41, 42.  
 Shafer, F. F., 7.  
 Shafer, G. D., 38.  
 Shafroth, J. F., 14.  
 Shanklin, A. G., 63.  
 Shanks, L. P., 66.  
 Shannon, A. H., 41.  
 Shannon, E. F., 12.  
 Sharp, J. C., 68.  
 Sharp, L. T., 14.  
 Shattuck, C. H., 22.  
 Shattuck, F. V., 26.  
 Shattuck, H. B., 69.  
 Shattuck, S. W., 22.  
 Shaw, A. B., 14.  
 Shaw, C. F., 60, 61.  
 Shaw, G. W., 13, 14.  
 Shaw, J. K., 37.  
 Shaw, R. S., 37, 38.  
 Shaw, S. B., 53.  
 Shaw, W. T., 72, 73.  
 Shawkey, M. P., 73, 74.  
 Shedd, C. K., 26.  
 Shedd, O. M., 30, 31.  
 Shedd, S., 72.  
 Sheib, R., 61.  
 Sheldon, C. H., 14.  
 Sheldon, J. L., 74.  
 Shepard, C. E., 16.  
 Shepard, C. S., 50.  
 Shepard, E. R., 59.  
 Shepard, J. H., 65.  
 Shepperd, Mrs. A., 55.  
 Shepperd, J. H., 54, 55.  
 Shepperd, J. L., 39, 40.  
 Sherman, C. E., 55.  
 Sherman, F., jr., 53.  
 Sherman, M. M., 27.  
 Sherrod, C. M., 9.  
 Sherwin, M. E., 52.  
 Sherwood, F. W., 53.  
 Sherwood, R. M., 56.  
 Shi, B. L., 9.  
 Shields, J. F., 60.  
 Shields, R. L., 41.  
 Shines, P. L., 10.  
 Shockley, A. R., 35.  
 Shoemaker, C. E., 24.  
 Shoesmith, V. M., 37, 38.  
 Shook, L. W., 10.  
 Short, C. A., 17.  
 Shuford, W. J., 53.  
 Shute, W. W., 49.  
 Sievers, F. J., 75, 76.  
 Silvester, R. W., 35.  
 Simmons, A. L., 54.  
 Simmons, G. E., 34.  
 Simmons, L. Van T., 60.  
 Simmons, Mrs. M. E., 29.  
 Simms, B. T., 53.  
 Simms, F. F., 33.  
 Simms, G. I., 35.  
 Simms, M. J., 68.  
 Simpson, H. H., 49.  
 Simpson, J. N., 74.  
 Simpson, M., 38.  
 Simpson, O. G., 59.  
 Simpson, R. O., 10.  
 Simpson, R. W., 63.  
 Sinclair, W., 34.  
 Sitrine, F. A., 50.  
 Sisson, S., 56.  
 Sjogren, O. W., 45.  
 Skeeler, F. J., 67.  
 Skinner, J. H., 24, 25.  
 Skofield, P. E., 72.  
 Slagle, R. L., 65.  
 Slate, W. L., jr., 34.  
 Sletta, I., 40.  
 Sloan, P. H. E., 63.  
 Sloan, R. E., 11.  
 Sloan, W. G., 7.  
 Smalley, H. R., 25.  
 Smart, T., 68.  
 Smart, Z., 69.  
 Smiley, G., 29.  
 Smith, A., 63, 64.  
 Smith, A. B., 28.  
 Smith, Mrs. A. G., 31.  
 Smith, A. M., 39, 40.  
 Smith, A. S., 38.  
 Smith, C. A. (Minn.), 39.  
 Smith, C. A. (Pa.), 61.  
 Smith, C. C., 11.  
 Smith, C. M., 24.  
 Smith, C. O., 14.  
 Smith, C. P. (N. Y.), 51.



- Smith, C. P. (Vt.), 69, 70.  
 Smith, D. P., 30.  
 Smith, E. C., 69.  
 Smith, E. H., 14.  
 Smith, E. O., 16.  
 Smith, E. R., 60.  
 Smith, F., 23.  
 Smith, F. H., 62.  
 Smith, G., 39, 40.  
 Smith, G. A., 50.  
 Smith, G. C., 47.  
 Smith, G. E. P., 12.  
 Smith, H. D., 29.  
 Smith, H. E., 67.  
 Smith, H. F., 26.  
 Smith, H. J., 63.  
 Smith, H. R., 45, 46.  
 Smith, I. W., 54.  
 Smith, J. B., 48, 49.  
 Smith, J. E., 36.  
 Smith, J. W., 56, 57.  
 Smith, L., 19.  
 Smith, L. C., 74.  
 Smith, L. H., 23.  
 Smith, L. M., 38.  
 Smith, L. W., 51.  
 Smith, M. E., 11.  
 Smith, M. M., 27.  
 Smith, P. H., 37.  
 Smith, O. F., 61.  
 Smith, R. E. (Cal.), 13, 14.  
 Smith, R. E. (Iowa), 26.  
 Smith, R. F., 67.  
 Smith, R. I., 52, 53.  
 Smith, R. M., 59.  
 Smith, R. O., 48.  
 Smith, T. O., 47.  
 Smith, W. A., 53.  
 Smith, W. B., 33.  
 Smith, W. H., 23.  
 Smith, W. O., 21.  
 Smith, W. S. T., 46.  
 Smith, W. W., 24.  
 Smyth, E. A., jr., 70.  
 Snedden, D., 36.  
 Sneed, C. F., 58.  
 Snelgrove, I. P., 38.  
 Snelling, C. M., 19.  
 Snapp, H. A., 38.  
 Snodgrass, A. C., 42.  
 Snodgrass, M. D., 6, 11.  
 Snook, J. H., 56.  
 Snow, F. C., 44.  
 Snow, G. G., 41.  
 Snow, O. L., 38.  
 Snyder, A. H., 27.  
 Snyder, J. L., 37.  
 Snyder, W. P., 46.  
 Somers, C. L., 39.  
 Sommers, S. L., 6.  
 Sorrell, E. W., 33.  
 Soule, A. M., 8, 19, 20.  
 Soulen, P., 22.  
 Southall, J. P. C., 9.  
 Southwick, L. B., 26.  
 Spangler, S. M., 66.  
 Sparks, D. A., 19.  
 Sparks, E. E., 8, 60.  
 Sparks, H. W., 73.  
 Spaulding, M. H., 44.  
 Speare, A. T., 21.  
 Spears, H. D., 30, 31.  
 Speidel, J. M., 59.  
 Spence, C. E., 58.  
 Spence, T. H., 35.  
 Spencer, A. P., 18.  
 Spencer, J. W., 51.  
 Spencer, R. D., 61.  
 Spencer, W. S., 62.  
 Spinney, L. B., 26.  
 Spitzer, G., 25.  
 Sponsler, A. L., 27.  
 Sponsler, O. L., 45, 46.  
 Spooner, C. S., 39, 40.  
 Spragg, F. A., 38.  
 Sprague, D. B., 73.  
 Sprague, R. J., 34, 36.  
 Spriggs, W. A., 74.  
 Spring, S. N., 16.  
 Spurway, C. H., 38.  
 Stadtmueller, F. H., 16.  
 Stafford, E. W., 58.  
 Stahl, H. S., 70.  
 Stahl, J. L., 73.  
 Stakman, E. C., 39, 40.  
 Stanford, J. F., 12, 13.  
 Stange, C. H., 26, 27.  
 Stanley, C. H., 35.  
 Stanley, F. W., 7.  
 Stanley, L., 43.  
 Stansel, T. B., 53.  
 Stanton, E. W., 25, 26.  
 Staples, C. H., 33.  
 Starcher, G. C., 71.  
 Stark, C. R., 41.  
 Starring, C., 22.  
 Stathers, M., 74.  
 Stayner, G. E., 27.  
 Stebbins, C. A., 13.  
 Steck, C. C., 47.  
 Stecker, H. F., 60.  
 Stedman, J. M., 7.  
 Steeb, C. E., 55.  
 Steed, H. N., 52.  
 Steele, B. L., 73.  
 Steenbock, H., 75, 76.  
 Steik, K., 77.  
 Steiner, C. D., 56.  
 Steinman, D. B., 22.  
 Stene, A. E., 62.  
 Stenius, J. A., 57.  
 Stephens, D. E., 59.  
 Stephens, G. W., 34.  
 Stephens, J. V., 19.  
 Stephens, L., 26.  
 Stephens, M., 72.  
 Stephens, R. P., 19.  
 Stephenson, E. B., 73, 74.  
 Stephenson, S. A., 48.  
 Stetson, J. M., 69.  
 Stevens, A. T., 16.  
 Stevens, F. C., 50.  
 Stevens, F. L., 52, 53.  
 Stevens, Mrs. F. L., 8.  
 Stevens, G. E., 38.  
 Stevens, H. E., 12, 13.  
 Stevens, J. S., 34.  
 Stevens, N. E., 28, 29.  
 Stevens, O. A., 55.  
 Stevens, W. H., 17.  
 Stevenson, W. H., 26, 27.  
 Stewart, C. A., 22.  
 Stewart, E. D., 55.  
 Stewart, F., 9.  
 Stewart, F. C., 50.  
 Stewart, H. C., 67.  
 Stewart, H. W., 23.  
 Stewart, J. P., 60, 61.  
 Stewart, J. S., 19.  
 Stewart, J. T., 39, 40.  
 Stewart, M. A., 74.  
 Stewart, R., 68, 69.  
 Stewart, R. L., 49.  
 Stickley, M. B., 52.  
 Stocker, G. P., 49.  
 Stockham, W. L., 55.  
 Stocking, W. A., jr., 51, 52.  
 Stockly, J. C., 17.  
 Stockton, F., 49.  
 Stockwell, E. R., 59.  
 Stoddard, E. M., 16.  
 Stoddard, C. W., 60.  
 Stohl, L. N., 68.  
 Stokes, M. B., 63.  
 Stokes, W. B., 9.  
 Stoll, R. C., 30.  
 Stoltenberg, F. C., 65.  
 Stone, A. L., 75, 76.  
 Stone, C. W., 47.  
 Stone, G. E., 36, 37.  
 Stone, J. F., 55.  
 Stone, J. L., 51, 52.  
 Stone, W. E., 8, 24.  
 Stoneburn, F. H., 16.  
 Stoneking, J. B., 49.  
 Stoner, M. A., 57.  
 Storms, L. B., 29.  
 Storrs, L. J., 16.  
 Story, G. F. E., 36.  
 Stouder, K. W., 28.  
 Stout, O. V. P., 7, 46.  
 Stover, A. P., 7.  
 Stover, M. E., 14.  
 Stover, W. G., 57.  
 Strahan, C. M., 19.  
 Stratton, W. T., 29.  
 Straus, I. L., 35.  
 Strausbaugh, E. J., 27.  
 Straw, O. W., 47.  
 Street, J. P., 16.  
 Streeter, F. C., 43.  
 Strowd, W. H., 53.  
 Stryke, A. C., 51.  
 Stuart, W. V., 24.  
 Stubbs, J. E., 46.  
 Stuckey, H. P., 20.  
 Stumberg, C. H., 32.  
 Sturdevant, L. B., 45, 46.  
 Sudro, W. F., 55.  
 Sugden, J., 72.  
 Suggs, D. C., 20.

- Sullivan, G. L., 44.  
 Sulloway, R. W., 47.  
 Summers, H. E., 26, 27.  
 Summers, J., 34.  
 Summers, L. W., 9, 10.  
 Summey, G., jr., 52.  
 Surface, F. M., 30, 31.  
 Sutherland, G., 27.  
 Sutherland, W. A., 49.  
 Sutphen, D. D., 48.  
 Swanger, J. E., 44.  
 Swanson, C. O., 28, 29.  
 Swanzy, F. M., 21.  
 Swartwout, A. M., 43.  
 Sweeney, F. R., 63.  
 Sweeney, M. P., 50.  
 Sweet, A. T., 43.  
 Sweet, E. S., 21.  
 Swenk, M. H., 45, 46.  
 Swezey, O. H., 21.  
 Swift, J. C., 42.  
 Swingle, D. B., 44, 45.  
 Swingle, L. D., 77.  
 Swire, R. P., 31, 33.  
 Sykes, G. F., 59.  
 Sylvester, D. W., 26.  
 Symons, T. B., 35.  
 Sypherd, W. O., 17.  
 Szymoniak, B., 43.  
 Taft, L. R., 37.  
 Taft, W. H., 71.  
 Taggart, L. M., 26.  
 Taggart, W. G., 32.  
 Tailby, G. W., 51.  
 Tailby, G. W., jr., 51, 2.  
 Taisne, T., 47.  
 Tait, C. E., 7.  
 Taliaferro, T. H., 35.  
 Taliaferro, W. T. L., 35.  
 Tallant, J. G., 47.  
 Tallman, W. D., 44.  
 Tanner, H. T., 42.  
 Tarbox, F. G., jr., 64.  
 Tartar, H. V., 59.  
 Tartar, N., 59.  
 Tatarian, B., 12.  
 Tate, W. A., 11.  
 Tatum, C. S., 67.  
 Taubenhaus, J. J., 17.  
 Tausig, R. J., 13.  
 Taylor, A. W., 73.  
 Taylor, E., 27.  
 Taylor, F. K., 63.  
 Taylor, F. W., 47.  
 Taylor, G. H., 46.  
 Taylor, H. C., 75, 76.  
 Taylor, H. L., 50.  
 Taylor, J. R., 55.  
 Taylor, L. L., 48.  
 Taylor, L. M., 14, 15.  
 Taylor, O. M., 50.  
 Taylor, R. G., 28.  
 Taylor, R. M., 38.  
 Taylor, S. S., 36.  
 Taylor, T. H., 53.  
 Taylor, W. J., 44, 45.  
 Teele, R. P., 7.  
 Teeter, H. W., 51.  
 Teetzel, C. T., 68.  
 Telfer, W., 17.  
 Temple, C. E., 22.  
 Temple, J. C., 20.  
 Templeton, G. S., 67.  
 Tener, J. K., 60.  
 Ten Eyck, A. M., 28, 29.  
 Tennant, H. M., 59.  
 Tenney, E. D., 21.  
 Terral, W. F., 32.  
 Terrell, C. B., 30.  
 Terrell, R. C., 30.  
 Terrell, W. P., 68.  
 Terrill, B. M., 69.  
 Terry, J. P., 23, 24.  
 Terry, O. P., 24.  
 Terry, P. W., 41.  
 Terry, W. K., 9.  
 Thach, C. C., 9.  
 Thackston, J. A., 18.  
 Thatcher, G. W., 68.  
 Thatcher, R. W., 8, 73.  
 Thayer, P., 56.  
 Theige, K. J., 22.  
 Theophile, E. M., 33.  
 Thom, C., 16.  
 Thom, C. C., 73.  
 Thomas, E. E., 14.  
 Thomas, E. K., 62.  
 Thomas, G., 68.  
 Thomas, L., 55.  
 Thomas, M. (Ohio), 56.  
 Thomas, M. (Utah), 68.  
 Thomas, M. M., 64.  
 Thomas, S. F., 65.  
 Thomas, W., 61.  
 Thomas, W. A., 64.  
 Thomas, W. H., 67.  
 Thomas, W. R., 15.  
 Thompson, A. L., 51.  
 Thompson, A. R., 6, 21.  
 Thompson, A. S., 26.  
 Thompson, B. E., 38.  
 Thompson, B. L., 65.  
 Thompson, C. A., 47.  
 Thompson, Mrs. C. D., 26.  
 Thompson, D. O., 25.  
 Thompson, E., 52.  
 Thompson, E. J., 54, 55.  
 Thompson, F., 17.  
 Thompson, F. F., 48.  
 Thompson, G. A., 34.  
 Thompson, G. W., 34.  
 Thompson, H. B., 62.  
 Thompson, J., 54.  
 Thompson, J. B., 6, 20.  
 Thompson, J. I., 14.  
 Thompson, J. I., jr., 60.  
 Thompson, L., 47.  
 Thompson, L. B., 20.  
 Thompson, N. L., 29.  
 Thompson, O. A., 55.  
 Thompson, R., 49.  
 Thompson, R. C., 12, 13.  
 Thompson, R. E., 32.  
 Thompson, T. T., 68.  
 Thompson, W. O., 8, 55.  
 Thompson, W. R., 51.  
 Thornber, J. J., 12.  
 Thornburg, M. G., 26.  
 Thorne, C. E., 8, 56.  
 Thornley, W., 69.  
 Thornton, E. W., 53.  
 Thornton, J. R., 31.  
 Thornton, M. K., jr., 67.  
 Thorpe, J. L., 44.  
 Thrash, J. A., 19.  
 Thrasher, G. B., 49.  
 Throckmorton, R. I., 29.  
 Tibert, G. L., 54.  
 Tidball, V. J., 76.  
 Tiebout, G. L., 33.  
 Tiffany, H. E., 17.  
 Tilden, W., 27.  
 Tillman, B. R., 63.  
 Tillman, B. W., 6.  
 Tillman, J. N., 12.  
 Tillman, O. I., 53.  
 Timblin, C., 72.  
 Tingey, C. S., 68.  
 Tinkey, A. K., 28.  
 Titlow, C. R., 74.  
 Titsworth, A. A., 48.  
 Titsworth, J., 56.  
 Titus, C. M., 14.  
 Titus, E. G., 68, 69.  
 Tobey, E. R., 34.  
 Todd, P., 48.  
 Tolstrup, M. R., 65.  
 Tomhave, W. H., 39.  
 Tompkins, D. A., 52.  
 Tompkins, D. G., 26.  
 Tonkin, J. C., 47.  
 Tooley, F. V., 59.  
 Toombs, D., 58.  
 Toomer, J. E., 66.  
 Torney, J. L., 75, 76.  
 Torrey, J. L., 43.  
 Tottingham, W. E., 75, 76.  
 Tough, M., 65.  
 Tourgee, C. H., 12, 13.  
 Towles, E. S., 41.  
 Townsend, J. A., 72.  
 Tracy, N., 25.  
 Trammell, P. W., 18.  
 Trask, R. P., 51.  
 Treman, C. E., 50.  
 Treman, R. H., 50.  
 Trescott, K. B., 63.  
 Trewin, J. H., 25.  
 Trimble, R. F., 15.  
 Trimble, W. J., 54.  
 Trimmer, F., 47.  
 Tripp, W. E., 61.  
 Troop, J., 24, 25.  
 Trotman, J. F., 75.  
 Trout, E. D., 12.  
 Trowbridge, E. A., 42, 43.  
 Trowbridge, P. F., 42, 43.  
 Troy, D. C., 72.  
 Troy, H. C., 51.  
 True, A. C., 6, 8, 11, 20, 21, 62.

- True, G. H., 46.  
 Trueman, J. M., 16.  
 Trumbull, F., 10.  
 Trumbull, R. S., 45, 46.  
 Truog, E., 75, 76.  
 Truscott, F. W., 74.  
 Tubergen, C. B., 50.  
 Tuck, C. H., 51.  
 Tucker, E. S., 33.  
 Tucker, H., 53.  
 Tucker, H. M., 53.  
 Tucker, H. V., 31.  
 Tudor, J. H., 60.  
 Tulane, V. H., 10.  
 Tull, C. C., 22.  
 Tullis, R. L., 32.  
 Tulloss, J. O., 27.  
 Tune, I. S., 26.  
 Tunnell, E. W., 17.  
 Tupper, F., jr., 69.  
 Turner, A. (Ark.), 12.  
 Turner, A. (Wis.), 75.  
 Turner, A. A., 11.  
 Turner, F. J., 29.  
 Turner, H. B., 72.  
 Turner, J. B., 30.  
 Turner, J. D., 31.  
 Turner, J. W., 30.  
 Turner, L. G., 66.  
 Turner, M. M., 36.  
 Turner, W. A., 36.  
 Turner, W. F. (Ala.), 9, 10.  
 Turner, W. F. (N. C.), 53.  
 Turpeau, L. A., 36.  
 Turpin, G. M., 68, 69.  
 Turrell, C. A., 12.  
 Tuthill, J. E., 30.  
 Tuttle, E. M., 51.  
 Tuttle, F. E., 30.  
 Twiss, W. B., 48.  
 Tyler, M. H., 62.  
 Tylor, A. R., 14.  
 Ullsperger, H. W., 75, 76.  
 Ulrey, C., 34.  
 Umberger, H. J. C., 29.  
 Underwood, E. E., 31.  
 Underwood, W., 40.  
 Upham, J. S., 35.  
 Upson, Mrs. A., 15.  
 Upson, I. S., 48, 49.  
 Urquhart, J., 72.  
 Usher, S., 23.  
 Utt, C. A. A., 28.  
 Vall, C. E., 15.  
 Valdivieso, A. P., 62.  
 Valentine, J. A., 75, 76.  
 Valley, O., 28.  
 Van Alstine, E., 23.  
 Vanatta, E. E., 43.  
 Vanatta, P. O., 19.  
 Van Auken, C. H., 51.  
 Van Cleef, M., 50.  
 Vanderpoel, S. O., 48.  
 Van de Veer, C. W., 22.  
 Van Dine, D. L., 62.  
 Vandiver, M., 35.  
 Van Dyck, F. C., 48.  
 Van Es, L., 54, 55.  
 Van Hise, C. R., 75.  
 Van Horn, H. F., 72.  
 Vann, T. E., 52.  
 Van Norman, H. E., 60, 61.  
 Van Rensselaer, M., 51.  
 Van Slyke, L. L., 50.  
 Van Smith, S., 15.  
 Van Steenberg, W. H., 48.  
 Van Storm, A., 26.  
 Vanstory, C. M., 53.  
 Van Suchtelen, F. H., 38.  
 Van Zile, Mrs. M. P., 28.  
 Vaplon, W. E., 15.  
 Varnum, C. A., 34.  
 Varrelman, F. A., 61.  
 Vaughan, H. W., 56.  
 Vaughan, J. H., 49.  
 Vaughan, L. L., 53.  
 Vaughn, E. C., 30, 31.  
 Vaulx, J. R., 26.  
 Vawter, C. E., 70.  
 Vedder, H. K., 37.  
 Ventresco, F. P., 73.  
 Vernon, J. J., 18.  
 Verrill, A., 34.  
 Viall, G. M., 26.  
 Vincent, C. C., 63.  
 Vincent, G. E., 39.  
 Vinson, A. E., 12.  
 Vivian, A., 55.  
 Vivian, C. A., 11.  
 Volck, W. H., 14.  
 von Ende, C. L., 22.  
 Voorhees, F. M., 48.  
 Voorhees, J. F., 66.  
 Voorhees, W., 18.  
 Voorhees, W. P., 48.  
 Voorhorst, R. G., 48.  
 Vredenburg, W. H., 48.  
 Vroom, G. D. W., 48.  
 Wachter, H. M., 57.  
 Wade, C. I., 70, 71.  
 Wade, N. B., 7.  
 Wadsworth, H. A., 22.  
 Waggoner, E. W., 74.  
 Waid, E. D., 36.  
 Wainwright, T. L., 41, 42.  
 Wait, C. E., 66.  
 Waite, R. H., 35.  
 Walcott, W. H., 11.  
 Walden, B. H., 16.  
 Waldo, Mrs. C. H., 58.  
 Waldron, C. B., 54, 55.  
 Waldron, J. W., 21.  
 Waldron, L. R., 55.  
 Waldron, R. A., 61.  
 Walker, A. T., 44.  
 Walker, E., 12, 13.  
 Walker, E. S., 18.  
 Walker, G. B., 42.  
 Walker, G. W., 40.  
 Walker, H. B., 29.  
 Walker, I., 15.  
 Walker, J., 12.  
 Walker, L. L., 30.  
 Walker, L. S., 37.  
 Walker, M. A., 10.  
 Walker, W. H., 60.  
 Walker, W. L., 69.  
 Wallace, A. J., 13.  
 Wallace, A. R., 33.  
 Wallace, C., 26.  
 Wallace, J. S., 41.  
 Wallace, R. C. E., 57.  
 Wallace, W. H., 37.  
 Waller, C. H., 68.  
 Waller, O. L., 72, 73.  
 Wallin, F. A., 44.  
 Walls, E. P., 59.  
 Walsh, H., 35.  
 Walster, H. L., 75, 76.  
 Walters, E. H., 69.  
 Walters, G. D., 15.  
 Walters, J. D., 28.  
 Wannamaker, J. E., 63.  
 Ward, C. E., 36.  
 Ward, E. A., 58.  
 Ward, H. B., 23.  
 Ward, W. F., 10.  
 Wardall, R. A., 55.  
 Ware, J. F., 70.  
 Waring, B. E., 73.  
 Warne, N., 48.  
 Warner, F., 28.  
 Warren, G. F., 51, 52.  
 Warren, G. M., 7.  
 Warren, J. W., 20.  
 Warren, L. J., 21.  
 Warren, W. E., 72.  
 Wartmann, E. L., 18.  
 Wascher, F. W., 23.  
 Washburn, F. L., 39, 40.  
 Washburn, R. M., 39, 40.  
 Washington, A. E., 72.  
 Washington, B. T., 10, 11.  
 Washington, Mrs. B. T., 11.  
 Washington, G. S., 33.  
 Wason, E. H., 47.  
 Waterbury, I. R., 37.  
 Waterbury, L. A., 12.  
 Watermann, C. E., 64.  
 Waters, E. F., 75.  
 Waters, H. J., 8, 27, 28, 29.  
 Wathen, R. N., 30.  
 Watkins, Mrs. A., 10.  
 Watkins, L. J., 11.  
 Watkins, O. S., 24.  
 Watson, E. J., 33.  
 Watson, J., 57.  
 Watson, J. P., 27.  
 Watson, J. R., 18.  
 Watson, J. V., 62.  
 Watson, L. O., 64.  
 Watson, P. P., 64.  
 Watt, A., 38.  
 Wattles, W. A., 36.  
 Watts, C. F., 57.  
 Watts, R. L., 60, 61.  
 Watts, R. J., 36.  
 Waugh, F. A., 36, 37.

- Wayman, J., 11.  
 Waymouth, T. J., 62.  
 Weakley, C. E., Jr., 74.  
 Weatherford, J. K., 58.  
 Weaver, B. A., 41, 42.  
 Weaver, F. P., 61.  
 Weaver, L. A., 43.  
 Weaver, T. J., 33.  
 Webb, J. C., 10.  
 Webb, J. H., 16.  
 Webb, R. D., 9.  
 Webb, W. S. (Ky.), 30.  
 Webb, W. S. (Vt.), 69.  
 Webber, H. J., 8, 51, 52.  
 Weber, H. A., 55.  
 Webster, E. H., 28, 29.  
 Webster, R. L., 27.  
 Webster, S. H., 62.  
 Webster, W. A., 72.  
 Weddell, F. J., 41.  
 Weeks, A. D., 54.  
 Weeks, E., 28.  
 Weeks, W. S., 74.  
 Wegner, E. E., 73.  
 Weir, W. W., (U. S. D. A.), 7.  
 Weir, W. W. (Wis.), 75.  
 Welch, C. H., 39.  
 Welch, J. F., 32.  
 Welch, J. S., 22.  
 Weller, A. S., 33.  
 Wellington, C., 36.  
 Wellington, J. W., 25.  
 Wellington, R., 50.  
 Wells, A. A., 27.  
 Wells, B. J., 63.  
 Wells, R. W., 35.  
 Welton, F. A., 56.  
 Wendt, W. B., 37.  
 Weniger, W., 59.  
 Wentling, J. P., 39, 40.  
 Wentworth, E. N., 26.  
 Werby, A. B., 61.  
 Wergeland, A. M., 77.  
 Werthmueller, F. R., 21.  
 West, C., 56.  
 West, F. L., 68, 69.  
 West, O., 58.  
 West, R. M., 39, 40.  
 Westbrook, E. J., 57.  
 Westgate, V. V., 45, 46.  
 Westinghouse, H. H., 50.  
 Weston, C. P., 34.  
 Whedon, G. D., 61.  
 Wheeler, B. I., 13.  
 Wheeler, C. A., 16.  
 Wheeler, C. S., 13.  
 Wheeler, F. B., 53.  
 Wheeler, G. C., 29.  
 Wheeler, H. C., 23.  
 Wheeler, H. J., 8, 62, 63.  
 Wheeler, R. H., 51.  
 Wheeler, W., 36.  
 Wheeler, W. P., 50.  
 Wheeler, X., 65.  
 Whelan, J. B., 28.  
 Whetzel, H. H., 51, 52.  
 Whipple, L. F., 63.  
 Whipple, O. B., 44, 45.  
 Whitechurch, J. E., 23.  
 Whitcomb, E. S., 77.  
 White, A. D., 50.  
 White, A. E., 28.  
 White, B., 72.  
 White, C. H., 36.  
 White, D. S., 55.  
 White, E. (Me.), 34.  
 White, E. (Okla.), 57.  
 White, E. A., 36.  
 White, E. N., 56.  
 White, F. M., 75, 76.  
 White, F. W., 39, 40.  
 White, G. B., 64.  
 White, G. C., 43.  
 White, H. B., 39, 40.  
 White, H. C., 8, 19, 20.  
 White, H. L., 54, 55.  
 White, H. V., 60.  
 White, J. G. (Ky.), 30.  
 White, J. G. (Pa.), 60.  
 White, J. L., 72.  
 White, O. K., 38.  
 White, P. J., 73.  
 White, S., 72.  
 White, T. H., 35.  
 White, W., 65.  
 White, W. J., 74.  
 White, W. R., 61.  
 Whitecotton, J. W. N., 68.  
 Whitehill, A. R., 74.  
 Whiteman, J. H., 17.  
 Whitesell, R. B., 9.  
 Whiting, R. A., 25.  
 Whitman, C. H., 48.  
 Whitman, F. W., 47.  
 Whitmarsh, R. D., 56.  
 Whitmore, W. G., 45.  
 Whitney, E. M., 16.  
 Whitsett, A. T., 53.  
 Whitson, A. R., 75, 76.  
 Whitson, L. R., 39, 40.  
 Whittemore, C. F., 47.  
 Whittemore, G. A., 60.  
 Whitten, J. C., 42, 43.  
 Whittier, A. C., 17.  
 Whittier, E. O., 34.  
 Whittlesey, E. B., 16.  
 Whoriskey, R., jr., 47.  
 Wiancko, A. T., 24, 25.  
 Wiatt, J. E., 9.  
 Wicks, W. H., 22.  
 Wickson, E. J., 13, 14.  
 Widger, H. De F., 36.  
 Widtsoe, J. A., 68.  
 Wignall, C. L., 67.  
 Wilborn, A. J., 10.  
 Wilcox, E. M., 45, 46.  
 Wilcox, E. V., 6, 21.  
 Wilcox, R. M., 49.  
 Wilde, A. H., 12.  
 Wiley, R. C., 28, 29.  
 Wiley, W. R., 42.  
 Wilken, F. A., 38.  
 Wilkinson, J. W., 57.  
 Wilkinson, R. S., 64.  
 Wilkus, A. J., 6, 41.  
 Willard, H. R., 34.  
 Willard, J. M., 60.  
 Willard, J. T., 28, 29.  
 Willard, R. E., 49.  
 Willecox, W. G., 10.  
 Williams, C. B., 53.  
 Williams, C. G., 56.  
 Williams, C. H., 72.  
 Williams, E. L., 50.  
 Williams, F., 46.  
 Williams, J. E., 70.  
 Williams, J. M., 64.  
 Williams, J. O., 15.  
 Williams, L. F., 52.  
 Williams, M. B., 7.  
 Williams, M. M., 39.  
 Williams, P. E., 9, 10.  
 Williams, R. B., 50.  
 Williams, R. H., 39, 40.  
 Williams, W. G., 32.  
 Williams, W. M., 59.  
 Williamson, Mrs. C. M., 53.  
 Williamson, C. S., 9.  
 Williamson, H. H., 67.  
 Williamson, J. T., 10.  
 Williamson, L. H., 49.  
 Williamson W., 40.  
 Willingham, H. J., 9, 10.  
 Willis, L. G., 61.  
 Willis, R. L., 49.  
 Willson, A. E., 30.  
 Willson, C. A., 66.  
 Wilmore, J. J., 9.  
 Wilson, A. D., 39, 40.  
 Wilson, B. D., 30, 31.  
 Wilson, B. S., 29.  
 Wilson, C. E., 43.  
 Wilson, C. S., 51, 52.  
 Wilson, E., 47.  
 Wilson, E. E., 58.  
 Wilson, E. M., 20.  
 Wilson, F. D., 70.  
 Wilson, F. W., 12.  
 Wilson, G. W., 53.  
 Wilson, H. F., 59.  
 Wilson, H. S., 35.  
 Wilson, J., 26, 35.  
 Wilson, J. A., 58.  
 Wilson, J. K., 50.  
 Wilson, J. M., 12.  
 Wilson, J. W., 65.  
 Wilson, L. B., 35.  
 Wilson, M. L., 45.  
 Wilson, R. F., 57.  
 Wilson, R. H., 58.  
 Wilson, T. B., 50.  
 Wilson, V. T., 37.  
 Wilson, W., 47, 48.  
 Wilson, W. M., 51.  
 Wilson, Mrs. W. W., 31.  
 Windrow, R. J., 67.  
 Wing, H. H., 51, 52.  
 Wing, L. W., 51, 52.  
 Wingard, E. R., 34.  
 Wingert, H. S., 56.  
 Winn, C. E., 49.



- Winningham, M. F., 49.  
 Winsor, L. M., 69.  
 Winston, J. R., 61.  
 Winter, O. B., 50.  
 Winters, R. Y., 51.  
 Wish, O. R., 34.  
 Withers, W. A., 52, 53.  
 Withycombe, J., 58, 59.  
 Withycombe, R., 59.  
 Wobus, W. W., 43.  
 Wold, J. R., 22.  
 Wolf, F. A., 10.  
 Wolfe, R. P., 72.  
 Wolff, W. H., 47.  
 Woll, F. W., 75, 76.  
 Wood, C. W., 11.  
 Wood, E. P., 53.  
 Woodard, C. S., 44.  
 Woodard, R. L., 53.  
 Woodbury, C. G., 24, 25.  
 Woode, Mrs. J. E. D., 42.  
 Woodfin, O. L., 10.  
 Woodford, S. L., 50.  
 Woodman, A. M., 29.  
 Woodman, J., 37.  
 Woodman, L. E., 34.  
 Woodruff, W. B., 68.  
 Woods, A. F., 39, 40.  
 Woods, C. D., 8, 34.  
 Woods, D. F., 32.  
 Woods, M., 11.  
 Woods, W. W., 67.  
 Woodward, E. G., 43.  
 Woodward, S. M., 7.  
 Woodward, W., 43.  
 Woodworth, C. M., 65.  
 Woodworth, C. W., 13, 14.  
 Woofter, T. J., 19.  
 Wootton, L. L., 13.  
 Work, P., 51, 52.  
 Wornall, T. J., 42.  
 Worrell, M. E., 11.  
 Worsham, E. L., 19, 20.  
 Worsham, W. A., jr., 19.  
 Worst, J. H., 54, 55.  
 Worthen, E. L., 53.  
 Wray, J. D., 11.  
 Wright, A. H., 58.  
 Wright, A. L., 61.  
 Wright, A. T., 68.  
 Wright, C. S., 51.  
 Wright, J. C., 19.  
 Wright, J. H., 55.  
 Wright, L. L., 37.  
 Wright, R. G., 48.  
 Wright, R. R., 20.  
 Wright, S., 41.  
 Wright, S. J., 17.  
 Wright, T. R. H., 28, 29.  
 Wright, W. H., 75, 76.  
 Wright, W. J., 61.  
 Wright, W. R., 25.  
 Wright, W. T., 67.  
 Wurster, P., 23.  
 Yarnell, D. L., 7.  
 Yates, H. E., 45.  
 Yates, R. E. L., 52.  
 Yeater, C. E., 42.  
 Yeaw, F. L., 36.  
 Yoder, M. M., 21.  
 Yoder, W. A., 54, 55.  
 Yohe, H. S., 7.  
 Yonge, P. K., 18.  
 York, I. S., 67.  
 Yorke, P. C., 13.  
 Yothers, M. A., 73.  
 Young, C. H., 66.  
 Young, G. S., 65.  
 Young, Mrs. H. B., 51.  
 Young, H. D., 14.  
 Young, J. G., 31.  
 Young, J. M., 21.  
 Young, N. B., 19.  
 Youngblood, B., 67.  
 Youngblood, S. R., 58.  
 Youngburg, G. E., 65.  
 Yowell, J., 12, 13.  
 Zeigler, P. T., 58.  
 Zeiniger, D., 28.  
 Zembrod, A. C., 39.  
 Zerban, F., 62.  
 Ziefle, A., 55.  
 Zimmer, M. V., 45.  
 Zook, G. F., 61.  
 Zundel, G. L., 69.  
 Zwich, G. L., 42.



## THE AGRICULTURAL COLLEGES.

- ALABAMA—*Auburn*: Charles C. Thach.<sup>1</sup>  
*Normal*: W. S. Buchanan.<sup>1</sup> *Tuskegee*  
*Institute*: Booker T. Washington.<sup>2</sup>
- ARIZONA—*Tucson*: Arthur H. Wilde.<sup>1</sup>
- ARKANSAS—*Fayetteville*: C. F. Adams.<sup>3</sup>
- CALIFORNIA—*Berkeley*: E. J. Wickson.<sup>3</sup>
- COLORADO—*Fort Collins*: Chas. A. Lory.<sup>1</sup>
- CONNECTICUT—*Storrs*: C. L. Beach.<sup>1</sup>
- DELAWARE—*Newark*: Geo. A. Harter.<sup>1</sup>  
*Dover*: W. C. Jason.<sup>1</sup>
- FLORIDA—*Gainesville*: J. J. Vernon.<sup>3</sup>  
*Tallahassee*: Nathan B. Young.<sup>1</sup>
- GEORGIA—*Athens*: Andrew M. Soule.<sup>1</sup>  
*Savannah*: R. R. Wright.<sup>1</sup>
- HAWAII—*Honolulu*: J. W. Gilmore.<sup>1</sup>
- IDAHO—*Moscow*: W. L. Carlyle.<sup>3</sup>
- ILLINOIS—*Urbana*: E. Davenport.<sup>3</sup>
- INDIANA—*La Fayette*: J. H. Skinner.<sup>3</sup>
- IOWA—*Ames*: E. W. Stanton.<sup>4</sup>
- KANSAS—*Manhattan*: H. J. Waters.<sup>1</sup>
- KENTUCKY—*Lexington*: M. A. Scovell.<sup>3</sup>  
*Frankfort*: J. S. Hathaway.<sup>1</sup>
- LOUISIANA—*Baton Rouge*: Thos. D. Boyd.<sup>1</sup> *New Orleans*: H. A. Hill.<sup>1</sup>
- MAINE—*Orono*: R. J. Aley.<sup>1</sup>
- MARYLAND—*College Park*: R. W. Silvester.<sup>1</sup> *Princess Anne*: T. H. Kiah.<sup>2</sup>
- MASSACHUSETTS—*Amherst*: Kenyon L. Butterfield.<sup>1</sup>
- MICHIGAN—*East Lansing*: J. L. Snyder.<sup>1</sup>
- MINNESOTA—*University Farm, St. Paul*: A. F. Woods.<sup>3</sup>
- MISSISSIPPI—*Agricultural College*: J. C. Hardy.<sup>1</sup> *Alcorn*: J. A. Martin.<sup>1</sup>
- MISSOURI—*Columbia*: F. B. Mumford.<sup>3</sup>  
*Jefferson City*: B. F. Allen.<sup>1</sup>
- MONTANA—*Bozeman*: Jas. M. Hamilton.<sup>1</sup>
- NEBRASKA—*Lincoln*: E. A. Burnett.<sup>3</sup>
- NEVADA—*Reno*: Joseph E. Stubbs.<sup>1</sup>
- NEW HAMPSHIRE—*Durham*: Wm. D. Gibbs.<sup>1</sup>
- NEW JERSEY—*New Brunswick*: W. H. S. Demarest.<sup>1</sup>
- NEW MEXICO—*Agricultural College*: W. E. Garrison.<sup>1</sup>
- NEW YORK—*Ithaca*: L. H. Bailey.<sup>3</sup>
- NORTH CAROLINA—*West Raleigh*: D. H. Hill.<sup>1</sup> *Greensboro*: James B. Dudley.<sup>1</sup>
- NORTH DAKOTA—*Agricultural College*: J. H. Worst.<sup>1</sup>
- OHIO—*Columbus*: H. C. Price.<sup>3</sup>
- OKLAHOMA—*Stillwater*: J. H. Connell.<sup>1</sup>  
*Langston*: Inman E. Page.<sup>1</sup>
- OREGON—*Corvallis*: W. J. Kerr.<sup>1</sup>
- PENNSYLVANIA—*State College*: Edwin E. Sparks.<sup>1</sup>
- RHODE ISLAND—*Kingston*: Howard Edwards.<sup>1</sup>
- SOUTH CAROLINA—*Clemson College*: W. M. Riggs.<sup>1</sup> *Orangeburg*: R. S. Wilkin-son.<sup>1</sup>
- SOUTH DAKOTA—*Brookings*: R. L. Slagle.<sup>1</sup>
- TENNESSEE—*Knoxville*: Brown Ayres.<sup>1</sup>
- TEXAS—*College Station*: R. T. Milner.<sup>1</sup>  
*Prairieview*: E. L. Blackshear.<sup>2</sup>
- UTAH—*Logan*: J. A. Widtsoe.<sup>1</sup>
- VERMONT—*Burlington*: Guy P. Benton.<sup>1</sup>
- VIRGINIA—*Blacksburg*: P. B. Barringer.<sup>1</sup>  
*Hampton*: H. B. Frissell.<sup>2</sup>
- WASHINGTON—*Pullman*: E. A. Bryan.<sup>1</sup>
- WEST VIRGINIA—*Morgantown*: E. D. Sanderson.<sup>3</sup> *Institute*: Byrd Priller-  
 mari.<sup>1</sup>
- WISCONSIN—*Madison*: H. L. Russell.<sup>3</sup>
- WYOMING—*Laramie*: Chas. O. Merica.<sup>1</sup>

<sup>1</sup> President.

<sup>2</sup> Principal.

<sup>3</sup> Dean.

<sup>4</sup> Acting President.

THE AGRICULTURAL EXPERIMENT STATIONS OF THE UNITED STATES.

